Biosystems Engineering

Student resume overview



Study Association BSc Agrotechnology & MSc Biosystems Engineering

June 2024 - May 2025

CONTACT INFORMATION

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PREFACE

Dear reader,

This guide contains the resumes of thirty students of the MSc Biosystems Engineering at Wageningen University & Research who are just graduated or will graduate up until July 2025. The students are placed in order of the expected graduation date. Before the pages with our students resumes, you will also find recommendations from companies and of one of our chair groups. On top of that, a summary of the study programme of Biosystems Engineering is given. More detailed information about the study programme of Biosystems Engineering, consisting of the bachelor Agrotechnology and the master Biosystems Engineering, can be found at the end of this book.

This guide is made by the Master Committee of Heeren XVII. Heeren XVII is the study association for the Agrotechnology bachelor students and the Biosystems Engineering master students. The study association organizes a wide range of activities that differ a lot in nature and scope. Heeren XVII has the following objectives:

- V Protection of the interests of students Agrotechnology and Biosystems Engineering.
- √ Encouraging of interaction between students.
- V Examining social relevance of the study programmes Agrotechnology and Biosystems Engineering.
- V Controlling the quality of these study programmes.
- V Encouraging contacts between students Agrotechnology, Biosystems Engineering and the employees of Wageningen University & Research, especially with the for the studies important chairgroups and institutes.
- √ Encouraging of personal and career-related development among students Agrotechnology and Biosystems Engineering.

To reach these objectives students are represented in the programme committees. Furthermore different activities are organised like a company day, a parents day, making a yearbook, excursions, sport events and social drinks. More information about the study association can be found on our website, www.heeren17.nl. For questions about the activities of Heeren XVII or other remarks you can always contact us by sending an email to mastercommittee.hxvii@wur.nl.

On behalf of the Master Committee of study association Heeren XVII,

Mark O'Dowd Chinmay Kulkarni Rutger Stavenga Lars Kloosterman Eric Wiskandt

Recommendation Committee:

Prof. dr. ir. E.J. van Henten Prof. dr. ir. P.W.G. Groot Koerkamp Prof. dr. ir. J.H. Bitter

Dr. ir. G.D.H. Claassen Prof. dr. ir. B. Tekinerdogan Prof. dr. ir. H.H.M. Rijnaarts Professor in Biosystems Engineering
Professor in Biosystems Engineering
Professor in Biobased Chemistry and Technology

Associate Professor in Operations Research and Logistics

Professor in Information Technology Professor in Environmental Technology

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AIM OF STUDY PROGRAMME

Biosystems Engineering is a multi-disciplinary academic programme that fulfils the needs of humankind in terms of sustainable food, feed, fuels, fibres and chemicals. It investigates, develops and combines knowledge and methods from technical sciences with biological, environmental, agricultural and social sciences. The Biosystems Engineering programme prepares students to address aspects of the question "How to sustainably feed 10 billion people in 2050?".

Systems engineering is central to this programme. Systems thinking ensures that generated technical solutions address relevant issues at the level of a system as a whole instead of focussing on isolated aspects or sub-systems. Systems engineering requires a multi-disciplinary mindset and expertise, and this aspect of the programme is supported by offering in-depth courses in selected relevant disciplines. Biosystems Engineering students are trained as system architects and learn to deal with the complexity of today's biosystems in the agri-food chain. Upon completion of this programme, students can act as an intermediary between different disciplines as well as between the application domain, science, engineering and society.

In the Biosystems Engineering programme, the heart of the domain is the agri-food chain and parts thereof. The agri-food chain starts with production in the field, in the barn or in the greenhouse, or sometimes even with plant breeding. The chain continues via intermediate steps like post-harvest grading and storage, processing, distribution, warehousing and retailing, ending with the consumer. A resilient and sustainable future requires down-stream side product utilization. At the same time, consumer demand governs the planning and the products that have to be produced, and streams of materials are returned in the chain; thus feedback in the chain is also assessed. Besides the more classical animal, arable or greenhouse production systems, the programme addresses more recent production systems for algae, seaweed, aquaculture and insects.

The Biosystems Engineering paradigm not only targets the improvement of individual steps in the agrifood chain, it also aims to improve larger parts of the chain. Design of production systems, sensing, data analysis, modelling and precise management are examples of the former, while reorganising the material flow in the chain by means of embedding pre-processing and on-farm recycling, optimising logistics on the farm as well as in the post-harvest chain, and effective software architectures and data management are examples of the latter.

Biosystems Engineering is an engineering programme similar to those at other technical universities in the Netherlands. However, its focus makes the programme unique: living organisms and products that are perishable, ripening or subject to decay. The emphasis of the programme is on acquiring in-depth knowledge, integrating knowledge, and the development of innovative technology and systems for a biobased society.

WHY STUDENTS OF BIOSYSTEMS ENGINEERING?

WUR Agriculutral Biosystems Engineering Group experience

It won't come as a surprise to you that as a professor of Biosystems Engineering working at the Agricultural Biosystems Engineering Group of Wageningen University, I am a proud supporter of and contributor to the Master Programme Biosystems Engineering at Wageningen University. A keen interest in technology is deeply rooted in the hearts of the staff members of the Agricultral Biosystems Engineering Group and the students Biosystems Engineering alike. Curiosity, a desire to innovate the agri-food chain and entrepreneurship are some other facets. Students and staff also share a strong interest in and commitment to the agri-food chain and to the need to provide a growing world population with food, feed, fuels and fibres in a sustainable way.

The MSc programme Biosystems Engineering is unique both nationally and internationally. It differentiates itself from other programmes by a strong emphasis on (parts of) the agri-food chain containing living organisms and products that are perishable, ripening or subject to decay. Non-linear dynamic responses to environmental factors, uncertainty in system inputs (e.g. weather, consumer demand, prices) and inherent variability within natural produce are amongst the particularities of biosystems that are addressed in some detail in this programme. In many other ways Biosystems Engineering is similar to engineering programmes at technical universities. The similarity is in the type of courses, the systems thinking approach and the systematic approach to science and engineering. With a solid multi-disciplinary training the programme Biosystems Engineering delivers systems engineers and systems architects; a key asset for employers when dealing with complex multi-disciplinary challenges in research and/or the development of new products.

Prof. dr. ir. Eldert J. van Henten Agricultural Biosystems Engineering Group Wageningen University

WHY STUDENTS OF BIOSYSTEMS ENGINEERING?

Company experience from HatchTech

At HatchTech Group, we're just a bit different. Not to be different, but to exceed every innovation we come up with the next day.

From developing cutting-edge incubators, a solution for determining female or male chicks in the egg, to technological solutions for efficient plant growth. We are innovative on every level, and critical on every detail. For better world feeding, to the service we provide for our customers and the commitment to animal welfare. Don't walk the beaten path, create new ones. Lead the way, and you will get a lot of energy in return.

We have several colleagues that studied Agrotechnology. It's a perfect fit with our company. Some personal experiences of them are given here:

"At our department we are continuously busy with understanding the relation between the egg/chicken and the incubator. We develop practical solutions to support the superior chickens with HatchTech technology every day."

Niek van den Top & Onno Flipse, Product Engineers at HatchTech

"My role at HatchTech contains a diverse mix of livestock know-how, technical insight and customer interaction. My background in Biosystems Engineering is a perfect match for this job at HatchTech."

Rick Stigter, Hatchery Coach at HatchTech

Take a look at our wonderful careers' website athatchtech.com to read more stories from our colleagues!

Company experience from Marel

When I applied for a Job with Marel (Stork at that time), I was asked why somebody with my background (agrotechnology) would be needed in the company. My spontaneous answer then was that I did not understand how they could do without. Now some 30 years later, employing on average 10-15 "technical" agrotechnologists, I am still convinced that's true. They have proven their value as leaders and specifically as the people who connect different disciplines. In whatever role: procestechnolgist, R&D specialist, layout designer, logistic consultant or technical director. The broad view on global agrotechnological challenges is necessary to be able to design new product or business concepts. They have the right DNA to be successful in our world; pragmatic thinkers and cosmopolitans who like to take action and bring people together. I am happy that gradually students find their way to Marel themselves. Originally that was not logical in the eyes of many, because we do not supply equipment to farmers (other than life chicken handling). There are different reasons why the agro technologists chose to work for us. Very important is that the complexity of our challenge is very interesting and that the amount of money available for R&D, 5-6% of turnover, is much bigger than in most machine businesses. The equipment is often being used 16 hours per day which allows for more advanced technical solutions to be implemented. The innovation project teams consist of many different disciplines and often 3rd party specialists and universities are involved as well. On the other hand... Marel also is small. As agrotechnologist you can still physically see the result of your work being build and used by customers and get their direct feedback.

Wim Beeftink, Technical director

mare

Yannick van Alebeek

Date of birth : 22 December 1999

Nationality : Dutch

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LinkedIn : www.linkedin.com/in/yannick-van-alebeek/

Address : Waalwijk





PERSONAL NOTE

I recently finished my MSc Biosystems Engineering studies, where I specialised myself in data science. During my studies I have always been interested in creating machine vision solutions for open field or horticulture systems. I am someone who is always precise and eager to learn new things. In my future career I would like to develop software solutions for food production / waste reduction.



EDUCATION

Education module 2023 – 2024

Wageningen University & Research, Wageningen

Orientation/specialisation: Physics

MSc Biosystems Engineering 2021 – 2023

Wageningen University & Research, Wageningen Orientation/specialisation: Farm Technology

Thesis: Tomato ripeness detection under different lighting conditions using a Mask-

RCNN deep learning neural network

BSc Biosystems Engineering (Agrotechnologie) 2018 – 2021

Wageningen University & Research, Wageningen

Orientation/specialisation: Data Science

Thesis: Cauliflower Ripeness Assessment in an Organic Farm using UAV data and a mask R-CNN deep learning model

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WORK EXPERIENCE

Logistic temporary worker 2017 – 2019 2022 – 2022

Logistic Force (Waalwijk, the Netherlands)

Being send to companies to fulfil various jobs in the logistic sector

Filling crew 2015 – 2017

Jumbo (Drunen, the Netherlands) Making sure shelves stay stocked

OTHER EXPERIENCE

Internship physics teacher 2023 – 2024

Pantarijn MHV (Wageningen, the Netherlands)
Teaching 2 classes physics several times a week

Internship 2023 – 2024

ISO group (Gameren, the Netherlands)

Writing software

Staff member scouting group: Sioniehorde 2018 – present

Scouting AZG (Waalwijk, the Netherlands)

Organise and lead weekly scouting activities for children aged 7-12

Graduated: June 2024

Anke Fekken

Date of birth : 18 April 2001

Nationality : Dutch

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PERSONAL NOTE

My personal interests are mainly in the livestock sector. I get energized when a sick calf recovers because of the extra care you give it, but also want to find out if I can prevent it next time. My interests are new techniques, cows and the agricultural sector. In this sector there are many opportunities to improve and develop new things.



----- INTERESTS -----

Animal Nutrition Sensor Data Farm Technology

----- HOBBIES -----

Ice skating Cycling

Working at the farm

----- OTHER -----

In my hometown, a friend and I are organizing a youth group from 12 to 16 years old, with which we do games once a week. I did a board year for the skating club, where I was secretary. I also served on the business day committee of the student union. Here I learned how to organize an evening for other students where they could come into contact with companies.



MSc Biosystems Engineering

Wageningen University & Research, Wageningen

Orientation: FTE

Other courses: Accounting, Feed Formulation Science and Sensor Data in Animal

Science

Thesis: Monitoring Calf Health Using Activity Data (Validation of a new sensor of Nedap by calves and investigate the relation between activity data and health of calves)

BSc Biosystems Engineering (Agrotechnologie)

2019 - 2022

2022 - present

Wageningen University & Research, Wageningen Orientation: Economic Minor and Animal Nutrition

Thesis: Diurnal Pattern of Milk Urea (Determining the pattern of milk urea over the day by performing an experiment with ten cows milking each two hours, in collaboration with the company Lely)



WORK EXPERIENCE

Dairy farm worker

2018 – present

Farm It Heidenskip & Offingawier

I help out on the farm, milking cows, taking care of the animals and doing other things. I also take over the farm when my parents or uncle are on vacation. I am then (co-)responsible for everything that happens and needs to be done on the farm.

Supermarket employee

2017 - 2020

Spar (Workum)

I was the cash register, had to refill or help out in the bakery. In addition, in the supermarket you have to help people and answer their questions.



OTHER EXPERIENCE

Internship: Dirtiness of pipettes and reproduction disorders

2024 - present

CRV (Arnhem, the Netherlands)

Evaluation of already collected data about dirtiness of pipettes from insemination and relate to reproduction disorders.

Graduated: June 2024

Niek Fierkens

Date of birth : 23 November 2000

Nationality : Dutch

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Address : Didam, Netherlands





PERSONAL NOTE

My personal interests are mainly in automation in the dairy industry. At home we have a dairy farm with about 85 cows. In Wageningen I followed the specialization Farm Technology. I therefore hope to be able to connect theory with practice in my work. My ambition is to develop and innovate systems in agriculture.





MSc Biosystems Engineering

2021 - present

Wageningen University & Research, Wageningen

Orientation/specialisation: Quantitative Analysis of Innovative Biosystems, Functional Agricultural Resource Management, Greenhouse Technology, Control Methods for Precision Farming.

Thesis: On barn calf weight estimation based on body measurements by an Intel depth camera. This thesis aimed to determine the weight of dairy calves using body features obtained by 3D images.

BSc Biosystems Engineering (Agrotechnologie)

2018 - 2021

Wageningen University & Research, Wageningen

Orientation/specialisation: Data Analysis for Biosystems Engineering, Control Engineering, Minor: Economics of Agribusiness, Grassland Science.

Thesis: Detect early signs of disease using accelerometers and automatic milk dispensers in young veal calves. This thesis aimed to determine whether early signs of disease can be detected by automatic monitoring systems so that calves can be treated earlier.



WORK EXPERIENCE

Worker at Mts. Fierkens

2016 – present

Mts. Fierkens (Didam, the Netherlands)

All agricultural activities at our dairy farm, such as milking, feeding, harvesting, preparing fields, working in construction, etc.

Worker at Van Leeuwen Group

2022 - 2023

Van Leeuwen Group (Waimate, New Zealand)

All agricultural activities at dairy farm with 1500 cows in New Zealand, such as milking, feeding, treating cows, etc.



OTHER EXPERIENCE

Internship: Cow behavior monitoring for feed analysis 2024 – present

Nedap Livestock Management (Groenlo, the Netherlands)

Investigating whether motion sensors can provide insights into the composition, quality, and or quantity of the feed that cows consume.

Functions within study association "Heeren XVII"

2019 - 2022

Wageningen, the Netherlands

Constructor of the 30th Almanac committee.

Member of the After-Lustrum committee.

Koen Voordendag

: 9 July 1999 Date of birth Nationality : Dutch

: +31 (0)6 - 504 362 98 Telephone E-mail : koenvoordendag@live.nl

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Address : Strijen, Netherlands





PERSONAL NOTE

I grew up on an arable farm in the Hoeksche Waard, the Netherlands. My personal interests are mainly focused on new agriculture technology especially in crop production systems and mechanisation. The challenges agriculture faced with motivates me to think outside the box. I am an enthusiastic social and hard working person with a hands-on mentality.

----- LANGUAGES -----

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Dutch

English

German

----- SKILLS -----

Python

MATLAB

Microsoft Office

Accounting

Project management

Arable farming

Drivers Licence (B+BE+T)

Crop Protection Licence

VCA certificate (VCA-VOL)

----- INTERESTS -----

Precision farming

Agricultural mechanisation

Farm systems

Crop production

Data analysis

Arable farming

----- HOBBIES -----

Ice skating

Tennis

Winter sports

Contact with family and friends

EDUCATION

MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen Orientation/specialisation: Farm Technology

Thesis: Quantifying the effect of biodiversity stimulating arable farming on potato production. A scenario analysis for arable farming. (Farm Frites, Oudenhoorn)

Supervisor: Prof. dr. ir. P.W.G. (Peter) Groot Koerkamp

BSc Biosystems Engineering (Agrotechnologie)

2017 - 2022

Wageningen University & Research, Wageningen Orientation/specialisation: Farm Technology

Thesis: Drip irrigation, towards an automated method for irrigation. Designing

control methods for drip irrigation.

Supervisor: Dr. ing. R.J.C. (Rachel) van Ooteghem



WORK EXPERIENCE

Partner in family farm

2020 – present

Mts. Voordendag & Preesman (Strijen, Netherlands)

Doing all common work on the family farm. It is an arable farm located in the Hoeksche Waard. On the farm potatoes, wheat, sugar beets, corn and peas are grown.

All-round employee

2019 – present

Gebr. Nijssen en Zonen B.V. (Mijnsheerenland, Netherlands)

Working in different industries like agriculture, earth moving and infrastructure.



OTHER EXPERIENCE

Functions within study association "Heeren XVII"

2018-2023

Wageningen, the Netherlands

Member Sports- and Activities Committee, Member Career Day Committee, Commissioner of Internal Affairs in the board of Heeren XVII, Member introduction weekend for first year students committee

Treasurer of youth association "Plattelands Jongeren Hoeksche Waard"

2023 - present

Hoeksche Waard, Netherlands

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Daan Geurts

Date of birth : 29 September 2000

Nationality : Dutch

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Address : Mill, The Netherlands





PERSONAL NOTE

Born and raised on a mixed farm with fattening pigs and arable land, interest in agriculture started early. With side jobs next to my study, I learned a lot about the practical issues of different specializations within agriculture. My personal interests are mainly focussed on improvements of yield and efficiency in both arable and livestock farming. In my future career I want to be involved in research and development of agricultural technology.



EDUCATION

MSc Biosystems Engineering

2022 - 2024

Wageningen University & Research, Wageningen Orientation/specialisation: Farm Technology

Thesis: Modelling and control of an air scrubber for ammonia emission reduction in poultry houses

BSc Biosystems Engineering (Agrotechnologie)

2018 - 2022

Wageningen University & Research, Wageningen Orientation/specialisation: Farm Technology

Thesis: Preventing pollution of camera systems in pig and poultry houses



WORK EXPERIENCE

Freelancer in the agricultural sector

2022 – present

Helping out agricultural businesses during busy periods. Working at an arable farm (Janssen/Tojapigs B.V. (Escharen, the Netherlands)) and a contract worker (Loonbedrijf Janssen VOF (Ledeacker, the Netherlands)). Experience with different types of crops, livestock and machinery.

Process operator and loader driver

2019 - present

Albers B.V. (Landhorst, the Netherlands)

Operator at a manure processing plant. Partially responsible for logistics, documentation and general maintenance jobs.

General farm worker

2013 - present

Geurts Mill VOF (Mill, the Netherlands)

Helping on the mixed arable and fattening pig farm of my parents.

Equipment operator

2022 - 2023

Van Leeuwen Dairy Group (Waimate, New Zealand)

Equipment operator on a New Zealand dairy farm. Learned a lot about farming abroad and improved my English language.



OTHER EXPERIENCE

Functions within study association "Heeren XVII"

2020-2023

Wageningen, the Netherlands

Member of the education quality committee, Member of the reunion committee

Jim Wiggers

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Nationality : Dutch

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PERSONAL NOTE

Growing up on a dairy farm has brought me a great interest in the agricultural sector. I would describe myself as a good listener, who also dares to be critical when needed. I am good at keeping an overview which allows me to work in a goal-oriented manner. My personal interests are data analysis, (mathematical) modelling and project management.





MSc Technology and Operations Management

2023 - present

Rijksuniversiteit Groningen, Groningen

During the MSc Technology and Operations Management one will learn to evaluate and solve technology-related operational challenges from a managerial perspective. The study programme has an emphasis on data analytics, simulation and mathematical modelling.

Thesis: The development of a decision model to determine the optimal investment portfolio for the sustainable transition of a broiler farm.

BSc Biosystems Engineering (Agrotechnologie)

2020 - 2023

Wageningen University & Research, Wageningen

Thesis: The evaluation of the behaviour of dairy calves to appraise the use and implementation of infrared thermography (IRT) and radar-based sensing.



WORK EXPERIENCE

Warehouse employee

2016 - present

Veldman Group, Raalte

Within Veldman Group's warehouse, I would describe myself as an all-rounder. On Saturdays, I am responsible for the daily operation. Part of which, is overseeing the staff members in the workplace. Furthermore, I am engaged in various tasks like managing the incoming goods or submitting warranty requests to suppliers.



OTHER EXPERIENCE

Houtdorp 2020

Voluntary work

"Houtdorp" is a small scale event in the woods of the Sallandse Heuvelrug for all the children of the primary school in Haarle. During this event of four days, children will be in a contest of building the most beautiful hut of all the participating teams while earning points by playing games. Together with the other volunteers, we managed the contest by coming up with games and keeping track of the scores.

Rick Vendrig

Date of birth : 5 June 2001 **Nationality** : Dutch

: +31 (0)6-361 204 05 Telephone : rick.vendrig@gmail.com E-mail

: www.linkedin.com/in/rickvendrig LinkedIn

Address : Opperdoes, NL





PERSONAL NOTE

I am a driven, helpful and loyal person. I can focus well and like to work precisely. I am always looking for challenges. With my practical experience from the farm, education and interests, I can be the connection between technological development and the practical side of agriculture. In the future, I would like to contribute to an innovative sector where technological solutions and automation are the standard.



Automation

----- HOBBIES -----

Football Futsal Snowboarding

Going out with friends



MSc Biosystems Engineering

Wageningen University & Research, Wageningen

Orientation/specialisation: Mobile Robotics, Software Engineering, Machine

Learning and Control Methods for Precision Farming

Thesis: Comparison of RGB-d sensors for tractor-mounted sensing

of plant canopy

BSc Biosystems Engineering (Agrotechnologie)

2019 - 2022

2022- present

Wageningen University & Research, Wageningen

Orientation/specialisation: Decision Science, Business Economics

Thesis: Human influence on foraging swarm robotics in an agricultural scenario



All-round farm employee

2012 – present

E. Bogers (Slootdorp, the Netherlands)

E. Bogers is a family farm which grows different types of crops and vegetables. Yearround, during the weekend and in vacations, I work with the crops and machines on the farm.

Seasonal worker 2017 – present

Biesheuvel Knoflook (Wageningen, the Netherlands)

Biesheuvel knoflook is a grower of fresh garlic. In the busy periods, I help with the different tasks like driving tractors or forklifts.

Car washer 2010 - 2012

Self-employed (Middenmeer, the Netherlands)

I wanted to start working but was too young. So, I started washing cars of my neighbours. Most of the time I washed one or two cars every week.



OTHER EXPERIENCE

Internship: NIR sensor in the application of manure

Mar 2024 - Jun 2024

Vantage-Agrometius (De Meern, the Netherlands)

During my internship I studied the added value for farmers of using a NIR sensor when applying manure and which practical implications had to be solved.

Internship: Comparison of RGB-d sensors

Sept 2023 - Feb 2024

Kubota Technology & Innovation EU (Nieuw-Vennep, the Netherlands)

At Kubota I wrote my MSc thesis about the comparison of RGB-d sensors for tractor-mounted sensing of plant canopy.

Involved with study association "Heeren XVII"

2019 - present

Wageningen, the Netherlands

As student I am involved in our study association. I have been in the board of the study association as Treasurer and have done several committees.

Graduated: August 2024

Lucy Peters

Date of birth : 8 November 2000

Nationality : Dutch

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PERSONAL NOTE

As a motivated person, I'm always open for new challenges and adventures. This is why engineering captured my attention, for it still has a lot of challenges and room for improvement. Furthermore I can remain calm and perform well when working under pressure. Working together in a team is something that appeals to me, but I can also work independent if needed.



In possession of a car

----- INTERESTS -----

Robotics

Decision science

Engineering design

Modelling production systems

Water/Hydraulic systems

----- HOBBIES -----

Reading

Kite-buggying (licenced)

Cycling

Running

Being surrounded by friends and family

EDUCATION

MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen

Orientation/specialisation: Farm Technology, Operations Research & Logistics Thesis: Optimizing species richness indicators in a bio-economic farm model. Some farm models have included species richness to see what the values are in certain areas of the farm, but it is not yet optimized while taking the economics into account.

BSc Biosystems Engineering (Agrotechnologie)

2019 - 2022

Wageningen University & Research, Wageningen

Orientation: Minor at SLU Sweden (Alnarp); Urban agriculture and Sustainable global production systems.

Thesis: "The inclusion of a source/sink controller affecting the energy management of a greenhouse"

How does the energy management of a greenhouse change when it's dependant on the source/sink controller of the crop grown in the greenhouse.



WORK EXPERIENCE

Quality control and Order Picker

2022 – present

Jumbo distribution centre (Veghel, the Netherlands)

Started with order picking and after 10 months starting with the quality control of the incoming flowers from suppliers

Hostess 2019 - 2022

BrabantZorg De Watersteeg (Veghel, the Netherlands)

Hostess for elderly people with dementia

Supermarket employee

2016 - 2019

2024 - present

Coop Supermarkt bv. (Heeswijk-Dinther, the Netherlands)

Occupied positions as baker, cashier and stocker.



OTHER EXPERIENCE

Internship: Optimize feeding accuracy, time and user friendliness in poultry farms.

VDL Agrotech (Eindhoven, the Netherlands)

Design of an optimized feeding process for poultry farms

Graduated: August 2024

Rob Scheren

Date of birth : 19 January 2000

Nationality : Dutch

Telephone : +31 (0)6 - 273 649 26 E-mail : scherenrob@gmail.com

LinkedIn : www.linkedin.com/in/rob-scheren

Address : Schinveld, Netherlands





PERSONAL NOTE

My interest in farming comes from having a father and uncle who are passionate about agriculture. My uncle even ran his own contracting company in which I was interested in from a young age. I always tried to assist whenever possible. The contracting business has now transitioned into a transporting company. Trucks have replaced tractors, but I am still surrounded with machinery, and that is where my passion lies.

In my future career I want to be involved in development of agricultural technology and mechanisation.



EDUCATION

MSc Biosystems Engineering

2022 – present

Wageningen University & Research, Wageningen

Specialisation: Farm technology

Thesis: 'Designing a Dutch arable farm with ecological weed management practices'. This is a design thesis focussing on the exclusion of herbicides in the arable domain. Using the RID methodology the end result will show a farming system that is able to manage weeds without the use of herbicides.

BSc Biosystems Engineering (Agrotechnologie)

2018 - 2022

Wageningen University & Research, Wageningen Specialisation: Operations research and logistics

Minor: Entrepreneurship and innovation

Thesis: 'Evaluating the CO2 emissions of an integrated olive production system using LCA'. This thesis focuses on the integration with sheep in an olive grove to reduce the CO2 emissions. This is done via a life cycle assessment methodology.



WORK EXPERIENCE

Carwash employee

2015 – present

Iclean Brunssum (Brunssum, the Netherlands)

Responsible for cleaning cars and making sure to have happy customers. Fixing broken machinery when needed. Experienced in team work, because working in a team is a necessity to work at Iclean.

Loader operator

2018 - 2018

Afvalzorg Brunssum (Brunssum, the Netherlands)

Working activities included: driving a big Volvo loader to load trucks and clean up the yard, processing pruning waste into compost & recycling used building materials.



OTHER EXPERIENCE

Board member of youth association "De Jonkheid"

2022 – present

Schinveld, the Netherlands

Currently being the treasurer of the youth association and also for the coming years. My job also includes organizing the traditional dennestrijd & Meifeesten in Schinveld, which is being organised by the board. Next to these responsibilities, my other responsibilities are: PR & internal communications.

Graduated: August 2024

Tjerk Kampert

: 12 October 2001 Date of birth

Nationality : Dutch

: +31 (0)6 - 579 813 52 Telephone E-mail : tjerkkampert@gmail.com

: www.linkedin.com/in/tjerkkampert LinkedIn

Address : Barneveld, Netherlands





PERSONAL NOTE

MSc Biosystems Engineering student specialising in Farm Technology. Experience with CAD and Python. My ambition is to design innovative machinery in agriculture. My broad knowledge of food production and the machinery used for that can help me think of new solutions.

----- LANGUAGES -----Dutch **English** German ••000 ----- SKILLS -----Python ••••0 **MATLAB** •••00 Machine learning •••00 CAD •••00

•••00

Drivers Licence (B+BE)

MIG welding

----- INTERESTS -----**Machine Learning**

Robotics Machine vision Bioprocess design

EDUCATION

MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen Orientation/specialisation: Farm technology

Courses: Biosystems Design, Quantitative Analysis of Innovative Biosystems, Robotics-mobile platforms, Robotics-arms and grippers, Physical modelling, Machine Learning, Operations Research and Logistics

Thesis: Evaluating the effect of synthetic data on the detection and weight estimation of fish in different levels of occlusion

BSc Biosystems Engineering (Agrotechnologie)

2019-2022

Wageningen University & Research, Wageningen Orientation/specialisation: Minor Animal science

Courses: CAD and mechanics, Sensing and perception, Control Engineering, Programming in Python, Physical transport phenomena, Modelling dynamic systems

Thesis: Determining the effect of manure type and mixing on the ammonia emission and total N loss from poultry manure

Description: I used the impinger method to measure the ammonia loss from different types of poultry manure and investigated the influence of mixing the samples. That was compared to the total nitrogen loss in the samples, to give an estimate of the amount of different nitrogen compounds lost.



WORK EXPERIENCE

All-round employee (parttime)

2015 - present

Zandschulp Hekwerken (Barneveld, Netherlands)

As a teenager, I started with assisting jobs on the farm with veal calfs. Soon, I learned how to weld and started to get into producing ornamental gates. Later, I also learned how to assemble them at the customer and design new gates in Autodesk Inventor



Committee member

2020 - present

Student association CSFR Wageningen

As a member of the student association, I worked on various committees. For example, I was the treasurer of the Amcie (activity committee) and a member of the WWWcie (organising a weekend).

Corné Talen

: 21 January 2000 Date of birth

Nationality : Dutch

: +31 (0)6 - 116 858 74 Telephone E-mail : cornetalen@hotmail.com

LinkedIn : https://www.linkedin.com/in/corn%C3%A9-talen-3ab1b7183/

Address : Bennekom, Netherlands





PERSONAL NOTE

My personal interests are mainly in the direction of Product Management and Research & Development within a company operating in agriculture. Growing up on a veal calf farm and dairy farm, I was surrounded by animals and tractors from a young age. This has given me a bias towards the livestock sector. I am committed to contributing to a sustainable and future-proof agriculture.



----- INTERESTS -----

Agriculture (livestock) R&D

Product Management

---- CHARACTERISTICS ----

Hard working

Strong communication

Organised

Curious

Eager to learn

----- HOBBIES -----

Football

Volleyball

Squash

Farm work

Reading

Contact with family and friends

EDUCATION

MSc Biosystems Engineering

2021 - present

Wageningen University & Research, Wageningen Orientation/specialisation: Farm Technology

Thesis: Performance assessment of a deep neural network for tomato detection trained with realistic synthetic data.

BSc Biosystems Engineering (Agrotechnologie)

2018 - 2021

Wageningen University & Research, Wageningen

Orientation/specialisation: Minor with focus on financial management.

Thesis: Validation of RFID as an indicator of the cow's head position within the "Cubicle Hood Sampler"



WORK EXPERIENCE

Allround employee (Saturday/vacations)

2014 - present

K. Talen, Veal calf farm with arable branch (Staphorst, the Netherlands) Besides all daily, practical work on the farm, also responsible for the (financial) administration, like paying bills and accounting (since 2020).

Allround employee (Saturday/vacations)

2016 - 2021

K.H.Kooiker Grond- en sloopwerken (Staphorst, the Netherlands)

The work mainly consisted of cleaning machinery/terrain and assist with projects in soil and demolition work. Gained a lot of experience by operating diverse machinery (tractors, trucks, etc.).



OTHER EXPERIENCE

Board member of student association C.S.F.R. Wageningen

2022 - 2023

Wageningen, the Netherlands

As treasurer, responsible for the financial matters concerning the association (e.g. paying bills, accounting), but also for the arrangement of locations and coordination of diverse committees.

Several committees of student association C.S.F.R. Wageningen

Wageningen, the Netherlands

Member or chairman of several committees regarding organizing activities, acquisition, advising role for the board of the association and verifying the treasurer and financial flows (as chairman of the KCC).

Bas Peijnenburg

Date of birth : 14 June 2001

Nationality : Dutch

Telephone : +31 (0)6 - 402 619 83 E-mail : baspeijnenburg@hotmail.nl

LinkedIn : https://www.linkedin.com/in/bas-peijnenburg/

Address : Rosmalen, Netherlands





PERSONAL NOTE

My interests are mainly in precision agriculture, robotics, vision technology and artificial intelligence. During my studies, I worked with robotics, AI and programming. For example, my thesis was on path planning for autonomous agricultural vehicles. I learned skills like problem-solving, critical thinking and developed my technical skills. I am committed to continuous learning and growth, always looking for opportunities to expand my skills and always up for challenges. I am communicatively strong and with my proactive attitude and commitment to quality, I would like to contribute to the automation and advancement of agriculture.



Robotics
Entrepreneurship
Vision technology
Artificial intelligence

----- HOBBIES -----

Work with technology Socialize with friends Play football

EDUCATION

MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen

Second-year student of the Master program Biosystems Engineering

Thesis title: Workflows for coverage path planning for complex agricultural fields.

BSc Biosystems Engineering (Agrotechnologie)

2021 - 2022

Wageningen University & Research, Wageningen

Premaster completed for the master's program of Biosystems Engineering.

HBO Agricultural engineering and management

2018 - 2022

Aeres University of Applied Sciences, Dronten

In the progress of the study, I performed several assignments at various companies. And learn about business and agricultural technical developments.



WORK EXPERIENCE

Employee mechanization company

2020 - present

LMB Peijnenburg BV., Rosmalen

All-round employee at parental mechanization company. I work in various areas such as the warehouse and in the mechanical workplace.



OTHER EXPERIENCE

Graduation internship

Jan 2022 - July 2022

Pixelfarming Robotics, Almkerk

Graduation internship in which I have been very involved in several projects in marketing and technology for field robots. I participated in the onboarding process to assist field growers in working with field robots.

Internship contracting company

Jan 2020 - July 2020

Gebr. Van Erp, Oss

Performed research on the digitalization of scheduling and work orders. And research on automating ditch cleaning systems.

Internship mechanization company

Apr 2019 - July 2019

SMB Genderen, Genderen

Internship to learn more about the mechanization company. I mainly worked behind the service desk, in the workplace and made a business analyse.

Dèstn Mulder

Date of birth : 31 July 1998

Nationality : Dutch

Telephone : +31 (0)6 – 251 842 56 E-mail : destn.mulder@gmail.com





PERSONAL NOTE

My personal interests are mainly in the automation and optimization of production systems. In my BSc studies I combined automation courses with business economics. In my MSc studies, I focussed on automation and digitalization of biosystems. Also, I have practical field knowledge from work experience.



Drivers Licence (B)

----- INTERESTS -----

Biosystem Design Automation/Robotics

ΑI

Data analysis

----- HOBBIES -----

Cycling
Reading
Playing Guitar
Golf
DIY projects

EDUCATION

MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen

Orientation/specialisation: Robotics, AI, Modelling, Engineering Design,

Operations Research and Logistics.

Thesis: Factor Graph representation and Gaussian Belief Propagation for Tomato Plant Mapping

BSc Biosystems Engineering (Agrotechnologie)

2017 - 2021

Wageningen University & Research, Wageningen

Orientation/specialisation: Agricultural Business Management, Field Robot Design and Data Management

Thesis: Modelling and controlling strawberry fertigation to reduce fertilizer waste.



WORK EXPERIENCE

Robotics Assistant 2020 – present

Wageningen University & Research, Wageningen

Assisted in setting up a mobile robot for orchard applications, and evaluated data captured during field tests. This research was part of the Utopia project.

Greenkeeper 2014 - present

Gras Totaal Beheer (multiple locations throughout the Netherlands)

Tended to golf courses, gardens, and parks. Applying lawn stripping methods, trimming all kinds of greenery. Maintaining and repairing equipment, drainage and watering systems.

Farm hand 2014 - present

Wim Oskam Fruit (Werkhoven, the Netherlands)

Tended to various fruit crops as well as asparagus. Repaired and maintained farming equipment and fertigation systems.



Board member of Study Association "Heeren XVII"

2019 - 2020

Heeren XVII (Wageningen, the Netherlands)

As treasurer, I took care of the finances of Heeren XVII

Committee Activities Support

2020 - 2021

WUR (Wageningen, the Netherlands)

Assessed and settled subsidy requests for formative student activities as commissioner of a WUR body.

Dyah Nurasri Darmastuti Purboyo

Date of birth : 26 June 1997 Nationality : Indonesian

Telephone : +32 (0)6 169 219 03 E-mail : dyah.nurasri@gmail.com

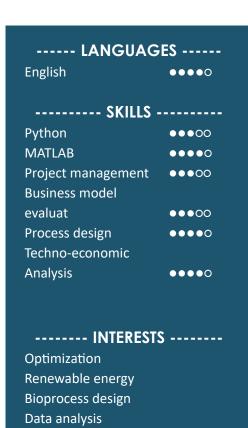
LinkedIn : www.linkedin.com/in/dyah-nurasri-darmastuti-purboyo/

Address : Bandung, Indonesia



PERSONAL NOTE

MSc Biosystems Engineering student specializing in environmental technology. Experienced in working with SuperPro Designer and coding in Phyton. Broad interest in renewable energy, bioindustry, agriculture, and processing. I am looking for a job in processing within the field of renewable energy, agriculture and environment.





MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen

Orientation/specialisation: Environmental Technology

Thesis: "Economic Optimization of Methane-Producing Bioelectrochemical System (BES) Integrated with Grid Balancing Service". My thesis focused on optimizing operational strategy to enhance the system's profitability when integrated with electricity grid balancing service.

BSc Bio-Engineering

2018 - 2021

Institut Teknologi Bandung, Indonesia

Orientation/specialisation: Bioprocess engineering

Thesis: "Preliminary Design of Production of Candlenut Oil Integrated with Production of Protein Hydrolysate from Candlenut Seed (Aleurites moluccana (L.) Wild.)". My thesis focused on designing a production system to utilize the byproduct of candlenut oil into protein hydrolysate.



WORK EXPERIENCE

Academic assistant 2022

Institut Teknologi Bandung, Indonesia

Supported the Bioengineering department with several activities like administration and social media manager.

Research assistant 2021

Institut Teknologi Bandung, Indonesia

Conducted research on "Bioactive Compounds of Moringa oleifera" and "Production of Protein Hydrolysate of Black Soldier Fly from Household's Organic Waste"



OTHER EXPERIENCE

Scholarship awardee for master's education

2022 - present

The Indonesia Endowment Fund for Education

Awarded full scholarship from Indonesia's government for master's education.

Vice president of UGreen ITB

2018 - 2019

Institut Teknologi Bandung, Indonesia

Helped president of UGreen and was responsible for coordination between Bandung & Jatinagor campus of ITB.

----- HOBBIES -----

Contact with family and friends

Reading

Playing games

Jon te Lintelo

Date of birth : 24 Februari 1998

Nationality : Dutch

Telephone : +31 (0)6 – 833 200 10 E-mail : jon.telintelo@gmail.com

LinkedIn : www.linkedin.com/in/jon-te-lintelo-5044b91ba/





PERSONAL NOTE

I am a creative, innovative, responsible and pragmatic but also very social person. My work-field interests are mainly in the automation of agricultural production systems. I like to solve challenges regarding mechanical engineering: I've been doing that all my life. In the future I like to work in the research & development part of a company, looking at creative new ways to solve problems combining my practical development skills with my theoretical education focusing on machine learning and robotics.

----- LANGUAGES -----Dutch Engilish ••••0 German ••000 French •0000 ----- SKILLS -----Analytical skills •••• Programming 00000 Project management 00000 Collaboration Presentation skills ••••0 CAD+ •••00

Practical hydraulics (PTC+)
Drivers Licence (B)

Healthcare certificate (EHBO)

---- INTERESTS -----

Automation

Mechanical Design

Robotics

Biosystems Design Machine Learning

----- HOBBIES -----

Classic cars (restoring, driving)
Collecting 50's & 60's vinyl records
and associated equipment
DJ'ing at parties
Playing sousaphone and double
bass in a jazz band
Social contacts with friends and
family

22

EDUCATION

MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen

Thesis: Construction and assessment of pear orchard mapping based on instance segmentation and RTK-GPS estimates using EKF-SLAM.

Supervisor : David Rapado Rincon Examiner : Dr. Ir. G (Gert) Kootstra

BSc Biosystems Engineering (Agrotechnologie)

2016 - 2021

2010 - 2016

Wageningen University & Research, Wageningen

Thesis: Characterization of an origami design soft pneumatic actuator

Supervisor : Ir. A (Ali) Leylavi Shoushtari Examiner : Dr.ir. A. (Bert) van 't Ooster

Additional : Minor Agricultural Business Management

Pre-University Education (VWO)

Dominicus College, Nijmegen

Orientation: Nature and Technology, Nature and Health



WORK EXPERIENCE

Own boss 2010 – present

Nijmegen/Wageningen, the Netherlands

Buy, repair and sell vintage collectable audio equipment.

Handcarry Heroes 2022 - present

Utrecht, the Netherlands

High urgency worldwide deliveries.

DHL postal agency 2020 – 2021

Ede, the Netherlands

Parcel delivery

Swapfiets 2018 – 2020

Wageningen, the Netherlands

Head of reparations, sales and shop assistant.

association "K.S.V. Sint Franciscus Xaverius"

Technica Technical Supplies 2013 – 2016

Nijmegen, the Netherlands

Repair assistant, shop assistant.



OTHER EXPERIENCE & ACHIEVEMENTS

President of student society	2020 – 2021
Manager jazzband " the Able Bodied Seamen"	2017 - 2022
Member of multiple committees within student	2020 - 2021

Mark O'Dowd

: 1st June 1999 Date of birth

Nationality : Irish

: +353 (0)83 - 459 36 38 Telephone : markodowd1999@gmail.com E-mail

LinkedIn : www.linkedin.com/in/mark-o-dowd-3156b61a3 Address : Lakeview, Glanmire, Co. Cork, Ireland, T45 E954.





PERSONAL NOTE

Having grown up on a family owned and operated dairy farm in the south of Ireland I have held agriculture close to my heart from a very young age. I am especially enthusiastic about the role of state-of-the-art agricultural technologies and robotics. During my free time I love to work on my family's farm, helping wherever I can and not being afraid of hard work. My goal is to pursue a career in which I can apply the vast range of academic skills I have developed during my studies together with my unique practical experiences of growing up on a dairy farm.



E.U Drivers Licence B + W (Tractor) National Powerboat Licence

----- INTERESTS -----

Agricultural Robotics Agricultural Technologies **Precision Agriculture Data Analysis**

New & Old Farm Machinery

----- HOBBIES -----

Scouting

Sailing

Wakeboarding

Powerboating

Hiking

Travel

Outdoor Adventure Activities

Volunteering

EDUCATION

MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen

Specialisation: Agricultural Biosystems Engineering (ABE) thesis track.

Thesis: "Path planning of multi-robot manure removal systems in dairy barns"

Modelled manure distribution and cow location to use as input into the path planning of multi-robot manure removal systems.

Relevant Courses: Robotics mobile platforms, greenhouse technology, machine learning, biosystems design, robotics arms & grippers, sensing & perception.

BAgrSc Agricultural Science

2018 - 2022

University College Dublin, Ireland

Specialisation: Agricultural Systems Technology (AST).

Thesis: "The design and architecture of an image-based crop spraying decision system using UAV gathered RGB imagery."

Successfully implemented a custom Matlab algorithm to detect areas of poor cereal crop health based on RGB images collected via drone imagery.



WORK EXPERIENCE

MSc Internship: Improving Quality of Grass Silages May 2024 - Sept 2024 John Deere GmbH & Co.KG, Kaiserslautern, Germany

- Agronomic testing in grass, alfalfa and ensilling process.
- Verification of established solutions, data analysis.
- Ideation of further development, doccumentation & presentation of results.

BAgrSc Internship: Cow Monitoring Team

Apr 2021 - Sept 2021

Lely Industries N.V., Maassluis, The Netherlands

- Conducted on-farm hardware and software tests of experimental products with the cow monitoring team at the product development department.
- Conducted performance analysis of new and existing company products.
- Installed, monitored, and maintained experimental set ups on several farms.



OTHER EXPERIENCE & ACHIEVEMENTS

Master Committee Member Study Association "Heeren XVII" 2023-2024

Wageningen University & Research, Netherlands

Active in organising academic and social events for fellow MSc students.

BAgrSc 3rd & 4th Year Scholarship

University College Dublin, Ireland

Monetary award for attaining the highest grades in the 3rd & 4th year of BAgrSc.

Nehul Desai

Date of birth : 15 February 2001

Nationality : Indian

Telephone : +31 (0)6 – 863 489 82 E-mail : nehulrakesh@icloud.com

LinkedIn : www.linkedin.com/in/nehul-desai-5b558217b/

Website : www.nehuldesai.com





PERSONAL NOTE

I am seasoned professional in greenhouse technology, consulting, and project leadership, who excels in growth marketing and strategic planning. Experienced with team collaboration and driving methodical approach, the approach blends knowledge with data analytics, focusing on iterative improvement and market leadership through understanding a company's core mission. Proficient in team dynamics, committed to valuing feedback for mutual growth, and adept applying principles from multiple fields to innovate and grow.

English SKILLS Python MATLAB Project management Business planning Accounting Excel modelling PowerPoint PowerPoint

----- INTERESTS -----

Strategic Communication
Branding for Agribusinesses
Structuring Processes
Al in Agriculture
Greenhouse Design
Business Modelling
Pitch deck creation
Problem Solving

----- HOBBIES -----

Story telling
Dancing
Reading (Non-Fiction)
Gymnasium
Podcasts



MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen Orientation/specialisation: Greenhouse Technology

Thesis: Economic Feasibility and Water Use Evaluation for Bell Pepper Greenhouses.

Conducted a comprehensive analysis of the costs, returns, and water consumption for bell pepper production in one-acre greenhouse in India to develop strategies for greenhouse growers.

BTech. Electrical Engineering (Instrumentation)

2018 - 2022

Vellore Institute of Technology, Vellore, India

Orientation/specialisation: Minor in Mechanical Engineering.



WORK EXPERIENCE

Project Controller

Jan 2022 – May 2022

Agrimations (Nashik, India)

Devised and executed a sustainable farm plan over 35 acres, resulting in the successful integration of an automated fertigation system and establishment of energy self-sufficiency) through the adoption of subsidised solar energy and efficient equipment.

Operations and Supply Chain Coordinator (Part time)

2021 – Present

SSV FARM (Ratlam, India)

Managed and streamlined farm operations, ensuring seamless coordination with fruit buyers, and overseeing the logistics to ensure timely and efficient delivery of produce. Increased operational efficiency by 20% in the first year (2022).



OTHER EXPERIENCE

Consulting Team Controller

May 2023 – Aug 2023

Voltiris (Zurich, Switzerland)

Collaborated in the development of a market penetration strategy, resulting in substantial growth in the Dutch sector. Executed detailed market research, leading to the identification and capitalization of key growth opportunities.

Entreprenership Track at Start hub

lun 2023 – Presen

Wageningen University and Research (Wageningen, Netherlands)

Acquired in-depth knowledge in start-up ecosystems, worked on pitch decks for four different agri-startups, assisting them in crafting pitches for seed funding, and led a team to develop sustainable business model, elevator pitch and customer proposition.

Steven Bernsen

: 2 August 1998 Date of birth

Nationality : Dutch

: +31 (0)6-40803484 Telephone

E-mail : slbernsen.bernsen@gmail.com or steven.bernsen@wur.nl

LinkedIn : www.linkedin.com/in/steven-bernsen-49aa6b212/ Address : van der Zaenlaan 4, Hilversum, the Netherlands





PERSONAL NOTE

To finish my MSc, I am looking for an internship. I am passionate about mathematical modelling of agricultural systems. My desire is to enable quantification of not just yield, but also nutrient flows and plant interactions to achieve more sustainable forms of agriculture. To bring automation into the agricultural sector, I am dedicated to providing mathematical frameworks with which management practices and sowing strategies can be optimized.

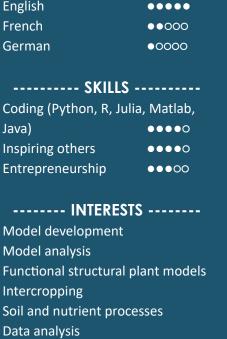


----- HOBBIES -----

Studying crop models

Sailing

Writing



EDUCATION

MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen

Orientation/specialisation: Mathematical & Statistical methods

Thesis: Exploring automated calibration of functional structural plant models

BSc Biosystems Engineering (Agrotechnologie)

2017 - 2022

Wageningen University & Research, Wageningen Orientation/specialisation: Minor Data science

Thesis: CFD simulation to estimate the thermal comfort in a pig barn



WORK EXPERIENCE

Independent engineer

Feb 2022 - Aug 2022

Pixel Farming Robotics (Almkerk, the Netherlands)

As a bachelor student, I researched different crop models for implementation in automated intercropping machinery.

Student assistant Building Physics and Climate

Mar 2022 - Apr 2022

Engineering

Wageningen University (Wageningen, the Netherlands)

As a student assistant, I helped bachelor students with practical assignments.

Sailor on charter vessel

Waddenzee, rederij Vooruit (Harlingen, the Netherlands)

As a sailor, I worked together with the captain of the ship to teach children how to sail, while maintaining a safe environment.



OTHER EXPERIENCE

Personal project: Winterweide

2023

(Wageningen, the Netherlands)

After being awarded 1st price of the Beter Boeren Competition, I wanted to bring my ideas into practice. Unfortunately, this enterprise failed and I shifted focus towards my masters thesis.

1st price Beter Boeren Competition

2023

Barth Misset fonds (Groningen, the Netherlands)

A competition between students to develop new ways of improving the circumstances for animals, farmers and nature.

Board member of sailing association Aqua

2018 - 2019

WSZV Aqua (Wageningen, the Netherlands)

I fulfilled the role of Commissioner Fleet and maintained the boats

Graduated: November 2024

Bernard Hermelink

Date of birth : 2 January 1999

Nationality : Dutch/ Costa Rican

Telephone : +31 (0)6 - 85786735

E-mail : bernherm99@gmail.com

LinkedIn : www.linkedin.com/in/bernard-hermelink-47b8a7181 Address : Costerweg 65-709, Wageningen, the Netherlands





PERSONAL NOTE

I am a Costa Rican/Dutch student with passion for technology in agriculture. My ambition is to improve the quality of life for farmers, consumers, and the environment with advanced technological solutions in agriculture. My interests are robotics, machine learning, and modelling.

Dutch English German Spanish SKILLS

Python •••••

MATLAB •••••

Project management •••••

Microsoft Office ••••

AUTODESK Inventor •••••

Drivers Licence (B) First-aid (BHV)

----- INTERESTS -----

Machine Learning
Machine vision
Data analysis
Robotics
Modelling

----- HOBBIES -----

Bass guitar Hiking Reading

Contact with family and friends Fixing/improving bikes



MSc Biosystems Engineering

2022 – present

2018 - 2022

Wageningen University & Research, Wageningen Orientation/specialisation: Farm Technology

Thesis: Identification of key aspects in fruit picking motions with Human Activity Recognition

Recognition

BSc Biosystems Engineering (Agrotechnologie)

Wageningen University & Research, Wageningen
Orientation/specialisation: Concepts in crop production

Thesis: Modelling the physiological effects of abamectin on Eisenia hortensis

IB International Baccalaureate 2016-2018

Colegio Lincoln, Costa Rica



WORK EXPERIENCE

Facilities Support

Facilitair bedrijf Wageningen (Wageningen, the Netherlands)

Closing shifts for university buildings. Tech support, customer service, administration, as well as first-aid responsibilities.

Student assistant course Robotics: Mobile platforms

2023

2022 - present

Wageningen University (Wageningen, the Netherlands)

Help students in the programming of a wheeled robot and sensors, using micropython.

Quality control specialist

2021

Syngenta Seeds (Zeewolde, the Netherlands)

In-field quality and homogeneity control for experimental varieties of barley.



Internship: Global Agriculture Internship

2024 – present

McCain Foods (Idaho, USA)

Research about the effect of irrigation strategies on the distribution of onion bulb size.

Graduated: October 2024

Angela Radityatama

Date of birth : 7 March 1996 Nationality : Indonesian

Telephone : +31 (0)6 - 133 927 06

E-mail : angela.radityatama@gmail.com

LinkedIn : www.linkedin.com/in/angelaradityatama

Address : Wageningen, the Netherlands





PERSONAL NOTE

My personal interests are mainly in construction of system dynamic modelling for crops and implement machine learning techniques for data analysis. I worked a lot with connecting the model of different type of plants and animals in an integrated farming system to analyse the symbiotic relationship to enhance the crop yield. In the future I like to work related to food crop production.



EDUCATION

MSc Biosystems Engineering

2022 – present

Wageningen University & Research, Wageningen

Orientation/specialisation: Agricultural Biosystems Engineering

Thesis: Optimizing rice and fish yield in integrated rice and fish farming in Indonesia by developing a nutrient balance model

BSc Agricultural Engineering

2014 - 2018

Bandung Institute of Technology, Bandung, Indonesia

Orientation/specialisation: Natural resource management

Thesis: Preliminary Design of High Productivity White Maize (Zea mays cv. Anoman) Cultivation System Through Intercropping with Groundnuts and Integrated with Rabbit Farming

I made a financial analysis of the intercropping system of white crop and ground nuts, integrated with rabbit meat farm



WORK EXPERIENCE

nde Staff 2020 – 2022

Korindo Group (Jakarta, Indonesia)

Developed electrical conductivity, pH, and water temperature monitor system using Arduino and Atlas Scientific sensors. Evaluated light duration and composition and nutrient concentration for indoor vertical farming vegetables and herbs.

Research and Development Staff

2021 - 2022

Wageningen University (Wageningen, the Netherlands)

Supervised daily operational hydroponic crop production to ensure harvest yield satisfy the customers' orders.



OTHER EXPERIENCE

Student Tutor MOS Course "The Art of Public Speaking"

2023 - 2024

Wageningen University (Heerenveen, the Netherlands)

Assist students to craft their presentations, organize contents and visualization and moderate peer feedback session to ensure students give meaningful feedback to each other

Graduated: November 2024

Niels van Damme

Date of birth : 8 March 2000

Nationality : Dutch

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LinkedIn : www.linkedin.com/in/niels-van-damme/

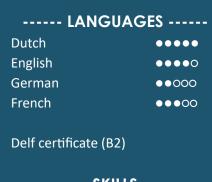
Address : Heinkenszand, the Netherlands





PERSONAL NOTE

My personal interests are mainly in automation, robotics and electronics. I have a solid background in electronic design and chip microfabrication, moreover I have experience with robotics and automation. As I am accurate, ambitious and collaborative, I like to take on challenges and solve problems. In the future I would like to combine my electronics and farm technology background to work on challenges in the agricultural sector.



SKILLS -	
Python	•••00
MATLAB	••••
C++	••••
С	•••00
Cadence	•••00
EasyEDA	••••
LTspice	••••
SolidWorks/AutoDesk	•••00
Project management	••••0

Drivers Licence (B)

----- INTERESTS -----

Robotics

Machine Learning (Analog) circuit design Chip microfabrication

----- HOBBIES -----

Organ playing Hiking Reading Social activities

EDUCATION

MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen

Orientation/specialisation: Farm technology and robotics

Thesis: A closed-loop control system for apple harvesting (developing a closed-loop control system for an end-effector to increase apple harvest success rate)

MSc Microelectronics

2021 - 2023

University of Technology, Delft

Orientation/specialisation: Bioelectronics design and chip microfabrication Thesis: The integration of bulk PZT transducers in a microfabricated cuff implant for Vagus Nerve ultrasound neuromodulation (8.5/10)

BSc Electrical Engineering

2018 - 2021

University of Technology, Delft

Orientation/specialisation: Robotics minor (electronic circuits and PCB design)

Thesis: E-nose PCB hardware for solid stool detection (9/10)



WORK EXPERIENCE

Marketing and stock manager

2017 - present

Boerderijwinkel van Damme (Heinkenszand, the Netherlands)

Planning stock related orders. Building and maintaining a webshop and website in WordPress. Informing customers via weekly mails with MailChimp and Piggy.

Technical assistant and employee

2017 – present

Fruit growing company Van Damme (Heinkenszand, the Netherlands)

Diagnosing technical machinery to advise for repair. Managing fruit sorting and packing activities where 20 people are involved.

Administrative student assistant

2020

University of Technology (Delft, the Netherlands)

Executed reordering of application data and file structures. Authored updated webpage texts and created new Brightspace pages.



Board member

2022 - present

Depositum Custodi (Utrecht, the Netherlands)

Coordinating association activities (for 160 people) and developing long-term goals. In addition, working as chief-editor for the associations' journal.

Bas Hendriks

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Nationality : Dutch

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Address : Flerdeweg 5, Leur, the Netherlands





PERSONAL NOTE

A driven, modest and versatile student with an interest in the agricultural sector and beyond. During my studies I've focussed on the technology of data/vision to work more efficiently and autonomously. Besides the technical part, I enjoy to explore new paths and to deepen and develop myself in them. For this I followed the Honours programmes, the NAHSS and had side jobs at Agrocares, AgXeed, the Young Advisory Group and now as a freelancer. I like to work in a team, being proactive and ambitious.



Programming
Data science

Vision

Dairy & arable farming
Machine manufacturing
Strategy consulting

Problem solving and analytical thinking

----- HOBBIES -----

Being outside Playing piano Reading

Meet with family and friends Work at the farm **EDUCATION**

MSc Honours Programme

2023 - present

Wageningen University & Research, Wageningen

An extra-curricular master programme with a study load of 15 credits.

MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen

Orientation/specialisation: data science and software engineering

Thesis: Data driven lying activity classification with an ear tag accelerometer

BSc Honours Programme

2019 - 2022

Wageningen University & Research, Wageningen

An extra-curricular bachelor programme with a study load of 24 credits.

BSc Biosystems Engineering (Agrotechnologie)

2019 - 2022

Wageningen University & Research, Wageningen
Orientation/specialisation: decision science and data science

Thesis: Smart weed detection in intercropping farming systems



WORK EXPERIENCE

Freelancer 2023 - present

Bas Hendriks Service Solutions (Wageningen, the Netherlands)

Working as a freelancer in helping and/or advising companies to identify areas where they could improve their internal strategies, processes, or productivity. Currently at Betuwe Plant B.V. and Flikweert Vision.

Strategy Consultant

2023 - present

Young Advisory Group (YAG) (Utrecht, the Netherlands)

YAG is a strategy consultancy firm run by ambitious students. Coached by top consulting firms, like Bain, McKinsey, and BCG, YAG provides strategic advice to small and medium enterprises, multinationals, and government.

Workstudent Sales & Data at AgXeed

2023 - 2023

Trainee Data Analyst at Agrocares

2022 - 2022

Side jobs at two farms

2012 - present



OTHER EXPERIENCE

Delegate & Project Coach 2022 - 2023

Netherlands-Asia Honours Summer School (the Netherlands)

Functions within study association "Heeren XVII" 2019 - 2024

Wageningen, the Netherlands

Secretary and chairman, member of five committees

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Ben Boerkamp

: 20 august 2001 Date of birth

Nationality : Dutch

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PERSONAL NOTE

I am someone who likes the incorporation of new and novel techniques in agricultural systems without losing track of the feasibility in practice. I enjoy a mixture of developing and improving technologies on the one hand and maintaining a strong connection with the field of application on the other hand.

----- LANGUAGES -----Dutch

English 00000 German ••000

Cambridge English (FCE and CAE, grade A)

----- SKILLS -----

Python **MATLAB** 00000 Modelling •••• Power BI ••••0 Autodesk CAD •••00 **Accounting** Microsoft Excel •••00 ••000

Drivers Licence (B+BE+T)

----- INTERESTS -----

Machine Learning

Operation research and Logistics Data analysis

----- HOBBIES -----

Contact with family and friends Going out **Sports**



MSc Biosystems Engineering

Wageningen University & Research, Wageningen

Orientation/specialisation: Farm technology and information technology. Courses like Sensor Data in Animal Sciences, Machine Learning and Greenhouse Technology. Thesis at Kubota Technology Innovation in Nieuw-Vennep.

Supervisors: Ayalew Kassahun and Kwabena Ebo Bennin

BSc Biosystems Engineering (Agrotechnologie)

2019 - 2022

2022 - present

Wageningen University & Research, Wageningen

Orientation/specialisation: Data Management, Grassland Science, Agricultural Business Economics, Data Driven Supply Chain Management, Entrepreneurship Thesis: Validating Cynomys concentration measuring system in the Lely Sphere system. My thesis was at Lely in Maassluis. Supervisor: Peter Groot Koerkamp



WORK EXPERIENCE

Self-employed service provider

2023 - present

Ben Boerkamp project services (Wageningen, the Netherlands)

I have two main activities in a small firm. On the other hand, I do consulting and software services on a small scale for companies in the agricultural sector.

General farm work

2010 - present

Different farms

From a young age, I have helped at my grandfather's sheep farm. Activities included tractor work and manual labour. I have also helped and occasionally help at dairy farms. Activities there include milking, tractor work and other general work.

Landscaping employee

2017 - 2024

Visscher VOF, and others (Nijeveen, the Netherlands)

Landscaping, gardening, machine maintenance, bricklaying, delivering and transporting goods, customer advising and sales.



OTHER EXPERIENCE

Functions within study association "Heeren XVII"

2019-2024

Wageningen, the Netherlands

Member of committees such as Freshman's, Lustrum, and Merchandise Committee. Activities included organising, meetings and budgeting.

Student consultant at UniPartners Wageningen

2023

Wageningen, the Netherlands

Treasurer of "Woeste Hoeve" student pub

2020 - 2022

Boudewijn Benjamins

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My personal interests are mainly in the agricultural sector, specifically a combination with animals. If there is a possibility, I like working with machinery as well. During my study, I have enjoyed working on large projects, because I like keeping an overview of the bigger picture. Combining the practical side with my analytical ability is something I am looking for in a job.



Animal technology

----- HOBBIES ----Being outside
Reading
Contact with family and friends
Farming
Truck driving

System modelling



MSc Biosystems Engineering

2022 – present

2019 - 2021

Wageningen University & Research, Wageningen Orientation/specialisation: Farm Technology

Thesis: Life cycle assessment for an integrated manure management system.

BSc Biosystems Engineering (Agrotechnologie)

Wageningen University & Research, Wageningen Orientation/specialisation: Farm Technology

Thesis: The effect of fertilization with separated manure streams on grass growth.



WORK EXPERIENCE

Truck driver 2022 – present

Ton Donkelaar (Renkum, the Netherlands)

During the holidays and weekends I drive a truck for a company that collects waste from building sites. During the winter time, I spread salt on the roads at night when necessary.

Dairy farm hand

2019 - 2023

Mts. Vlastuin (Ede, the Netherlands)

While working on the dairy farm I enjoyed working with animals and working outside. I liked working with machinery, but simply taking care of animals was a part of the job that I enjoyed doing a lot. Here I also drove a truck that transported manure for a while.

Greenhouse worker

2018 - 2019

The Greenhub (Amman, Jordan)

In my gap year, I have lived in the middle east for 6 months. In this time I worked in a greenhouse that produced a small amount of vegetables on the roof of a hotel.



OTHER EXPERIENCE

Functions within study association "Heeren XVII"

2020 - 2021

Wageningen, the Netherlands

During my board year at Heeren XVII I had 2 functions. I was the secretary and the president of the association. This has taught me a great deal about management of time and people.

Stefan Aantjes

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Address : Lopik, The Netherlands





PERSONAL NOTE

I am a focussed and organised worker who grew up on a dairy farm. My personal interests are related to this upbringing as I love working with the machinery on the farm in such a way that the cows or crops are best cared for. During my education I worked a lot with designing systems and machine vision. My ambition for my future is to use these skills and the knowledge to design machines that help the farmer take the best care of the animals or crops.



EDUCATION

MSc Biosystems Engineering

2022 - present

Wageningen University & Research, Wageningen

Orientation/specialisation: Machine learning/ Robotics

Thesis: Localization of a mobile robot in a tomato greenhouse using vSLAM Using ROS for testing a camera based localization and mapping algorithm on a robot in a greenhouse, and testing the accuracy of this algorithm

BSc Biosystems Engineering (Agrotechnologie)

2019 - 2022

Wageningen University & Research, Wageningen

Orientation/specialisation: Minor Animal Farming: Systems and Management Thesis: *Designing a non-hyperkeratosis-inducing milking system for dairy cows* Designing a new technique of milking with an automatic milking system that allows gentler milking and healthier teats of dairy cattle (in cooperation with Lely)



WORK EXPERIENCE

General farm assistant

2013 - present

Dairy farm ZeldenRust (Lopik, the Netherlands)

Assisting on my parents dairy farm during busy periods,

Activities include taking care of cows, cleaning barns and field work

Machinery operator (Summer Job)

2019 - present

De Heer Land & Water (Lopik, the Netherlands)

Contracting company that works for local municipalities.

Activities include lawn mowing, cleaning pavements & watering plant beds



Referee coordinator & Board member

2023 - present

Volleyball club LVV (Lopik, the Netherlands)

Assigning a referee to each match, organising referee training sessions.

Also member of the board in this function.

Graduated: January 2025

Lars Kloosterman

Date of birth : 16 December 1999

Nationality : Dutch

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Address : Wageningen, The Netherlands





PERSONAL NOTE

My interests are mainly in precision agriculture and the automation of systems. I am an enterprising person who likes to be busy and can perform well in a team as well as independently. I am always looking for new challenges and try to be active in many areas. For example, besides my studies I have been in the board of study association "Heeren XVII", but I have also always tried to combine different side jobs with my studies.



EDUCATION

MSc Biosystems Engineering 2023 – present

Wageningen University & Research, Wageningen Orientation: Operation Research and Logistics

BSc Biosystems Engineering (Agrotechnologie) 2018 – 2023

Wageningen University & Research, Wageningen

Thesis: Tracking movement of earthworms to visualize bioturbation patterns at the soil surface.



WORK EXPERIENCE

All-round employee landscaper

Jan 2015 – present

Alex Brouwer Sierbestrating, Valthermond

Helping customers with choices for their garden and incorporating the new materials into the garden.

Employee facilities Support

Feb 2022 – present

Wageningen University & Research, Wageningen

Assisting with daily problems at the university and closing the education buildings at the end of the day.

All-round employee dairy farm

Okt 2016 – May 2018

Valther melkvee, Valthermond

Doing all common work on the farm. It is a dairy farm located in Valthermond. They had around 350 cows.



OTHER EXPERIENCE

Functions within study association "Heeren XVII"

2018 – present

Wageningen, the Netherlands

As commissioner of internal affairs, a member of the board, I was the contact between the board and the various committees of Heeren XVII. I also interacted with chair groups to improve the quality of education for students. As a member of several committees I helped to organize the first-year weekend for new bachelor students. I was also committee member of the almanac committee, the excursion committee, the master committee and member of the company day committee.

Going out with friends

Boat trips

Help on the farm

Chinmay Kulkarni

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Nationality : Indian

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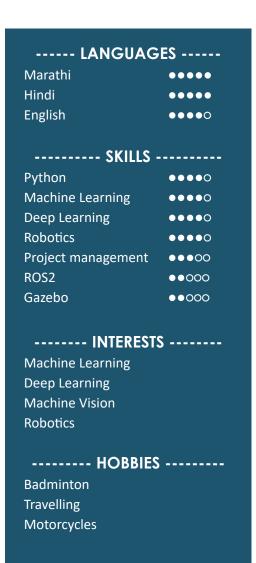
LinkedIn : www.linkedin.com/in/chinmay-kulkarni-7230a0211/ Address : Nieuwe Kanaal 1 – 004, 6701 PA Wageningen (NL)





PERSONAL NOTE

As a Biosystems Engineering student, my academic journey is fueled by a passion for integrating technology into agricultural systems to enhance efficiency and sustainability. I am enthusiastic about leveraging my skills in robotics, automation, and machine vision to contribute to the evolution of modern agricultural practices.





MSc Biosystems Engineering

2023 - present

Wageningen University & Research, Wageningen

Orientation/specialisation: Agriculture Biosystems Engineering (ABE) Thesis: Semantic map-based navigation of mobile robots in orchards.

BTech Agricultural Engineering

2017 – 2022

Mahatma Phule Krishi Vidyapeeth, Rahuri (India)

Orientation/specialisation: Farm Machinery

Project: Study of waste management practices utilized in food processing industry (Access the activities involved in the generation of waste in food processing industries. Identify the environmental impact of generated waste in the food processing industry. Reduce the production of waste from the company. Recommend appropriate waste handling and disposable measures)



OTHER EXPERIENCE

Functions within study association "Heeren XVII"

2022 – present

Wageningen, the Netherlands

Member of the master committee.

Internship: Tractor and farm Equipment Ltd.

Jan 2022 – Jun 2022

TAFE (Pune, India)

Engaged in sales and gained experience in offering post-sales engineering solutions to customers, enhancing client satisfaction and product performance.

Training: Agrinext Consultancy

Jan 2020 - Oct 2020

Pune, India

Designing of micro and macro irrigation systems in arable farm.

Summer Training: Escort Tractors Pvt. Ltd.

Jun 2019 – Aug 2019

Bangalore, India

Acquired expertise in the maintenance and operation of tractors and agricultural implements, focusing on optimizing IC engine and mechanical performance.

Rens van Heeringen

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Address : Moerkapelle, the Netherlands





PERSONAL NOTE

In my BSc and MSc thesis, the focus was/is on imaging techniques, resulting in automatization process. In addition to my studies, I am (mostly was) an active member of the student association C.S.F.R. Wageningen, where I have been the president of the board for a year, next to numerous other commission jobs. Besides knowledge, I have a lot of hands-on experience, due to my already 10-year work experience in a greenhouse for potted plants. I am interested in combining already existing concepts such as regenerative farming, with the (technical) knowledge gained in my master.



EDUCATION

MSc Biosystems Engineering

2021 – present

Wageningen University & Research, Wageningen

Thesis: Detecting internal onion defects using a non-destructive spectroscopy application

BSc Biosystems Engineering (Agrotechnologie) 2018 – 2

Wageningen University & Research, Wageningen

Thesis: Classification of germinating seeds by means of machine vision in the QIEM-Array germination unit



WORK EXPERIENCE

Driver 2022 – present

Autoafleveren.nl

Side job where I deliver cars/vans throughout the whole country

Allround employer 2013 – present

Anthuriumfarm Evanty / EP Flora, Moerkapelle

Saturday and vacation work. Worked on tasks such as general maintenance and spreading the biological control agents



OTHER EXPERIENCE

Resident Volunteer Coordinator

2023 - 2023

Eurorelief (Mavrovouni, Lesvos, Greece)

Volunteering by Coordinating the Resident Volunteers in the refugee camp on Lesvos for 6 months

President of student association "Dei Gratia"

2021 - 2022

Wageningen, the Netherlands

Board president of the Christian association 'C.S.F.R. Wageningen', also known as Dei Gratia

Sander Hofhuis

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Address : Tubbergen, the Netherlands





PERSONAL NOTE

I am a proactive and motivated person who is always trying to find the right solution to problems. These character traits say something about me in my studies but also while working next to my studies. Since I was young I was interested in agriculture and during my studies I got more into topics like climate engineering, precision farming and the storage and logistics of agricultural products. I like to work with new techniques and always want to improve existing ones.



EDUCATION

MSc Biosystems Engineering

2023 - present

Wageningen University & Research, Wageningen

Orientation/specialisation: Logistics, robotics & control.

Thesis: Quantification of ammonia and methane emissions from pig houses with outdoor access based on micrometeorological and tracer gas method.

BSc Biosystems Engineering (Agrotechnologie)

2018 - 2023

Wageningen University & Research, Wageningen Orientation/specialisation: Minor Animal Sciences

Thesis: Investigating the economic and technical possibilities of mineral concentrates as fertiliser for arable farming in the Netherlands.



WORK EXPERIENCE

Technician plumbing and HVAC

2016 - present

Installatiebedrijf Eppink (Tubbergen, the Netherlands)

During my job I install heat pumps and solar panels mainly for private individuals. I always want to meet customer requirements and provide good customer support.



OTHER EXPERIENCE

Functions within study association "Heeren XVII"

2022 – present

Wageningen, the Netherlands

Cash audit committee – Checking the association's cash flows, making sure all expenses and income flows are justified.

Periodic drinks committee – Organizing drinks for the association every period.

Functions within study association "'t Noaberschop"

2018 - 2020

Wageningen, the Netherlands

From December 2018 to december 2019 I was the secretary of student association 't Noaberschop.

From December 2019 to December 2020 I was the chair of student association 't Noaberschop.

Organising, planning and keeping an overview are qualities I improved during these years. I really enjoyed working with students from different fields of study.

Graduated: May 2025

Tamás Radnóti

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Address : Utrecht, Netherlands





PERSONAL NOTE

I am deeply attracted to the industry and its potential for innovation. This interest has led me to explore crops, robotics, and data processing topics in both my bachelor's and master's studies. Working with drones was an advantageous experience, as it allowed me to combine my technical skills with my enthusiasm for agriculture. The ability to use drones for tasks such as monitoring crop health and spraying crops really impresses me. In addition to my studies, in Hungary, I am working on my own Christmas tree plantation as my time allows.



EDUCATION

MSc Biosystems Engineering

2023 – present

Wageningen University & Research, Wageningen

Orientation/specialisation: Geo-information & Remote Sensing

BSc Mechanical Engineering in Agriculture and Food 2019 – 2023 Industry

Széchenyi István University of Győr

Orientation/specialisation: Precision agriculture

Thesis: Possibilities of agricultural drones in the precision agriculture: comparative study on the spray pattern of agricultural spray drones versus conventional sprayers



WORK EXPERIENCE

Bicycle Mechanic 2023-present

Decathlon (Utrecht-Tilburg, The Netherlands)

(Full service of customers' bikes, various online background tasks, spare parts order processing.)

Agricultural Spraying Drone specialist

2021 - 2022

ABZ Drone (Szentendre, Hungary)

(To familiarise Hungarian farmers with the complexities of this technology and to carry out various tests (spray patterns). Comparison of the spray pattern of different nozzles.)

Agricultural Drone Developer

2019 – 2022

Széchenyi István University of Győr (Győr, Hungary)

(Conducting various market researches, giving presentations at university/regional level. Attending/presenting at conferences. Modelling of different propeller vortexes.)

STUDY PROGRAMME BSc AGROTECHNOLOGY

The study programme Biosystems Engineering consists of a bachelor programme (BSc) of three years (180 credits) and a master programme (MSc) of two years (120 credits). One study year corresponds to 60 credits. At the end of the BSc the student gets the title Bachelor of Science (BSc). After that there is a possibility to continue with the MSc Biosystems Engineering. After completing the MSc study programme the student gets the title Master of Science. The BSc and MSc titles are internationally known and indicate that the student finished a scientific study.

BSc AGROTECHNOLOGY (IN DUTCH: BSc AGROTECHNOLOGIE)

The BSc Agrotechnology is unique in the Netherlands. The program is unique because it integrates knowledge of technology and living (higher) organisms through a system approach, taking into account the need for sustainable production of food, non-food and raw materials. An important characteristic of the program is the focus on design and technology for an unstructured, highly variable environment that is difficult to control. The goal of the bachelor programme is providing understanding of the basic disciplines of Biosystems Engineering and the awareness of a multidisciplinary approach. The three years of the bachelor have different functions in the education.

OVERVIEW OF BACHELOR PROGRAMME

COMPONENT	SIZE (credits)
Compulsory courses	114
Restricted optionals	12
Bachelor thesis	24
Free choice	30
Total Bachelor	180

Important learning purposes of the study are:

DOMAIN-SPECIFIC KNOWLEDGE AND UNDERSTANDING

- Understand and fathom through a systematic approach the technology needed for the production of food, non-food and raw materials;
- To understand the underlying biology of an agro-production, with an emphasis on the factors that influence the growth and can be controlled through technology;
- To understand the interaction and the role of various stakeholders in the agricultural production chain and society;
- To adjust the relevant knowledge of mathematics, physics, chemistry and biology to biosystems engineering related problems;
- To apply engineering principles and specific agro-technology related methods to biosystems engineering related problems;

SPECIFIC ACADEMIC SKILLS

- To apply the different steps of a scientific research or design process of a project to from setting up the project plan till carrying out the research or to make a design;
- Collecting and interpreted biosystems engineering related data with the purpose of observing, monitoring and managing of agricultural production systems;

DOMAIN-SPECIFIC SKILLS

- To apply different programming methodologies for measuring, modeling, system analysis, mathematics and statistics;
- To design and evaluate technology for an agricultural production system and in relation to different conditions through a methodic way;

ACADEMIC SKILLS

- Communicate both in speaking and in writing with regard to ideas, problems, solutions as a result
 of an research or a project with both specialists and non-specialists in Dutch and English where
 necessary;
- Be able to work in a team;
- Make an assessment on social needs and constraints in relation to biosystems engineering;
- To collect information in the field of agro-technology and assess the value of this information;
- To design and plan a private learning path with the main goal of learning your whole life.

STUDY PROGRAMME BSc AGROTECHNOLOGY

FIRST YEAR (BSc-1)

The first year of the study is mainly introductory and contains a wide range of subjects. All courses of the BSc-1 are compulsory; an overview of the courses is given below. The students get acquainted with different disciplines and different types of problems are presented. Skills as Oral presenting and Information literacy are also integrated in different courses.

OVERVIEW OF BSc-1 COURSES

BIOSYSTEMS ENGINEERING (6 credits)

Introduction to biosystems engineering

PHYSICS (6 credits)

Introductory physics

MATHEMATICS / IT (15 credits)

Statistics

Physical chemistry

Mathematics

Organic chemistry

ENGINEERING (15 credits)

Engineering problem solving

ECONOMY AND SOCIETY (12 credits)

Sustainable agricultural transitions

Process engineering Introduction to business economics, management CAD and mechanics and marketing

SECOND AND THIRD YEAR (BSc-2 AND BSc-3)

The second and third year offer a more comprehensive programme. In this year the students get more disciplinary knowledge. An overview of the compulsory courses of the BSc-2 and the BSc-3 year is given in below. There is also the possibility for free choice, next to the compulsory courses.

OVERVIEW OF COMPULSARY COURSES OF BSc-2 AND BSc-3

TECHNOLOGY (24 credits) RESEARCH SKILLS (6 credits)

Physical transport phenomena Research methods biosystems engineering

Modelling dynamic systems

Control engineering BIOLOGY (12 credits, choice out of:)

Sensing and perception Plant sciences
Building physics and climate engineering Animal sciences

DESIGN (6 credits)

Integrated pest management

Microbiology and biochemistry

Engineering design Soil-plant relations

MATHEMATICS / IT (18 credits)

Decision science

BACHELOR THESIS (24 credits)

Bachelor thesis agrotechnology

Programming in Python

Data analysis for biosystems engineering FREE CHOICE (30 credits)
Free choice or Minor

BACHELOR THESIS

A four month thesis project marks the end of the bachelor programme. Bachelor thesis projects are supported by the following Chair groups: Farm Technology, Biobased Chemistry and Technology, Information Technology, Operations Research and Logistics, and Environmental Technology. Thesis projects often have a multi-disciplinary nature, combining plant or animal sciences with technical solution directions in view of requirements set by society or industry. A multi-disciplinary approach is sometimes further enhanced when a thesis project is supervised by staff from two Chair Groups.

ELECTIVES OR MINOR

The students have 30 credits of electives to broaden their knowledge in a field relevant to their study programme. They can do a minor either at Wageningen University or another Dutch university, or at a university abroad. Alternatively, students can choose a set of elective courses. Their choice should contribute to the programme learning outcomes and needs approval from the study adviser and the Examining Board. For instance, if students are looking for more in-depth knowledge on economics, they can choose the minor

STUDY PROGRAMME MSc BIOSYSTEMS ENGINEERING

The MSc Biosystems Engineering is a tailor made thesis oriented study programme. The whole programme is taught in English and takes two years. The learning purposes are:

DOMAIN-SPECIFIC KNOWLEDGE AND UNDERSTANDING

- To know the various engineering aspects of agro production systems;
- State-of-the-art knowledge to understand and apply at least one of the sub-domains of the study for the Master's thesis;
- Be able to apply the relevant knowledge and methods of engineering in general and agricultural technology especially in domain related cases;
- Capability of making a realistic model of an agricultural production system and how it interacts with the environment;

SPECIFIC ACADEMIC SKILLS

- Capability of making a research plan in the field of biosystems engineering and critically reflect on the different stages of research or design;
- Capability of performing a research plan in the field of biosystems engineering adequately with the use of appropriate methods and techniques for collecting and interpreting the data;

DOMAIN-SPECIFIC SKILLS

 Capability of designing and evaluating innovative technology and systems for agricultural production in a structured way through the analysis of the system and stakeholders through the integration of knowledge, calculations, models and simulations;

ACADEMIC SKILLS

- Communicating in writing and speaking in the field of ideas, problems, solutions as a result of an research or a project with both specialists and non-specialists in English;
- Work in a multidisciplinary and / or multicultural team on a research or design project relevant to the domain;
- Make an assessment on social needs and constraints in relation to biosystems engineering;
- To collect information in the field of agro-technology and assess the value of this information;
- Design and plans a private learning path, based on a continuous reflection on gathering knowledge on new topics relevant to the agricultural technology and improve skills, attitude and performance.

OVERVIEW OF MSC PROGRAMME

COMPONENT	SIZE (credits)
Compulsory Biosystems Engineering courses	18
Thesis preparatory courses	12
Academic master cluster	12
Internship	24
Thesis	36
Electives for deepening or broadening	18
Total Master	120

The total compulsory part of the MSc study comprises 102 credits. The thesis and internship together are 60 credits and other compulsory parts take 42 credits.

COURSES

In the MSc programme three courses are compulsory for all students. In the course Modelling biobased production systems the student gets more profound knowledge on biosystems engineering with an emphasis on modelling. The course Biosystems design is a continuation of the course Engineering design in the BSc. In this course the students learn how to design the technology for a complex biosystem. In the course Quantitative analysis of innovative biosystems the students learn to quantitatively analyse an innovative or new biosystem, taking into account that for these systems in most cases a limited amount of specific and quantitative information is available.

STUDY PROGRAMME MSc BIOSYSTEMS ENGINEERING

The students have to do two advanced courses for thesis preparation. The specific courses the student has to do, depend on the thesis. The remaining 18 credits are for broadening or deepening their knowledge. The 18 credits can also be used to increase the duration of the thesis or the internship. The electives are chosen in consultation with the study adviser and can be used to go more in depth in one of the thesis tracks or to make the most out of the broad field of MBE by choosing a wide range of courses. The total programme must be coherent and is approved by the examining board.

ACADEMIC MASTER CLUSTER

There are three different ways for the career preparation in the academic master cluster.

- In the 9 credits ECTS Academic Consultancy Training the students learn in a multi-disciplinary and multicultural setting to execute a consultancy assignment on academic level. An important part of the course is that the students work on further development of their personal skills. The consultancy assignments originate from 'real-life' and require the input from different disciplines. With an addition of 3 credits from a wide range of modules the student will be prepared.
- In the entrepreneurial Academic Consultancy Training, theory and practice will be combined in interactive and thought-provoking education. The programme provides the opportunity to increase collaboration with entrepreneurial minded stakeholders in and outside the university. ACT and eACT are done with students from different programmes in preparation for the divers work field they come to work in. This contributes to their skills as intermediary in their future work.
- The course Research Master Cluster: Proposal Writing specifically is to acquire and improve students' professional skills in writing and defending a scientific research proposal. The student will conceive a realistic scientific idea and develop this into an attractive grant proposal of high quality that can be defended before a jury of experts and peers.

INTERNSHIP

The four month internship is an important part of the MSc in which the student can apply its obtained knowledge in a work environment that is similar to the professional practice. During the internship, many professional skills are developed like insight in functioning of another organisation, adaption capacity, independence, and time management. Together many learning outcomes are covered by the internship. It is an excellent way to prepare the student for the labour market. When the internship is done abroad a student also learns how to deal with other cultures and he or she can learn or improve a foreign language. A large number of Biosystems Engineering students are doing their internship abroad.

THESIS

All students have to do a 6 month thesis which is the culminate point of the study. They have to select one of the following different specialization:

- Biobased Chemistry and Technology (BCT)
- Environmental Technology (ETE)
- Farm technology (FTE)
- Geo-information Science and Remote Sensing (GRS)
- Information technology (INF)
- Operations research and logistics (ORL)
- Mathematical and Statistical Methods (MAT)

The thesis consists of doing independently research or a part of a research in which the knowledge and the skills gained in the BSc study, the MSc courses and the academic master cluster are being applied.

The objective of a thesis is doing scientific research in all its faces and aspects; these are:

- Searching, analyzing and evaluating of the available literature and other information in relation to the problem.
- Planning of lab experiments and / or steps to develop and test a mathematical model.
- Individually doing lab experiments and / or developing and testing mathematical models.
- Analysing and evaluating own research results, including the critical comparison with literature and results of thirds