Resumes:

Biosystems Engineering

HEEREN XVII

WAGENINGEN
UNIVERSITY & RESEARCH

June 2025 - May 2026

Biosystems Engineering

Student resume overview

Study Association BSc Agrotechnology &
MSc Biosystems Engineering

June 2025 - May 2026

CONTACT INFORMATION

Heeren XVII

Study association BSc Agrotechnology and MSc Biosystems Engineering

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Master programme of Biosystems Engineering

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PREFACE

Dear reader,

This guide contains the resumes of 27 students of the MSc Biosystems Engineering at Wageningen University & Research who are just graduated or will graduate up until June 2026. 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:

- √ Representation of the interests of students Agrotechnology and Biosystems Engineering.
- √ Encouraging of interaction between students.
- √ Examining social relevance of the study programmes Agrotechnology and Biosystems Engineering.
- √ Controlling the quality of these study programmes.
- √ 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,

Brenda Keijzers
Hanneke Scholten Linde
Petra Doolaege
Sverre Fokkens
Wout Hartveld

Recommendation Committee:

Prof. dr. ir. E.J. van Henten	Professor in Biosystems Engineering
Prof. dr. ir. P.W.G. Groot Koerkamp	Professor in Biosystems Engineering
Prof. dr. ir. J.H. Bitter	Professor in Biobased Chemistry and Technology
Dr. ir. G.D.H. Claassen	Associate Professor in Operations Research and Logistics
Prof. dr. ir. B. Tekinerdogan	Professor in Information Technology
Prof. dr. ir. H.H.M. Rijnaarts	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 agri-food 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

HatchTech Group

Take a look at our wonderful careers' website
Hatchtech.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

marel

WHY STUDENTS OF BIOSYSTEMS ENGINEERING?

Company experience from Rometron

At Rometron, we highly value the unique expertise that Agrotechnology graduates bring to our team. The combination of theoretical knowledge and hands-on experience they possess makes them an ideal fit for the fast-paced, innovative environment we cultivate.

From the development of cutting-edge precision farming technologies to improving the efficiency of our solutions, Agrotechnology graduates contribute significantly to our mission of sustainable agricultural practices. Their ability to translate complex scientific concepts into practical applications allows us to stay at the forefront of agricultural technology. Whether working on sensor-based weed detection systems, optimizing crop management strategies, or providing tailored advice to our customers, they consistently add value through their problem-solving skills, creativity, and passion for innovation.

We take great pride in the collaborative environment they thrive in, which aligns perfectly with our core values of continuous improvement and excellence in product development. We look forward to continuing our partnership with Agrotechnology graduates, as they play an integral role in the success and growth of Rometron.

Team Rometron

WEED·IT
powered by Rometron

Graduated: April 2024

Bastiaan Swinkels

Date of birth : 20 September 2000
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PERSONAL NOTE

My personal interests are in automation, robotics, and product development. I have experience in software, mechatronics, and hands-on work. During my studies I mostly focussed on machine vision and data analysis. I'm proactive, precise, and committed to quality. In the future, I would like to work in agriculture and continue developing my skills.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
German	●●○○○

---------- SKILLS ----------

Python	●●●●●
CAD	●●●●○
Arduino IDE	●●○○○
MATLAB	●●●○○
Project Management	●●●○○
PLC	●●○○○

Drivers Licence (B+BE)

-------- INTERESTS --------

Machine Learning
Data Analysis
Mechatonics
Agricultural Robotics
Farm Machinery

--------- HOBBIES ---------

Contact with family and friends
Hunting
Travelling

EDUCATION

MSc Biosystems Engineering 2021 –2024
Wageningen University & Research, Wageningen
Orientation/specialisation: Robotics & Data
Thesis: *Improving of vision-based trajectory estimation algorithm to use in orchards.* Pre-processing of monocular images for ORB-SLAM3 to increase trajectory accuracy.

HBO Mechanical Engineering 2018 – 2021
Fontys Univeristy of Applied Science, Eindhoven
Orientation/specialisation: Simulating and control engineering.

WORK EXPERIENCE

Bottling operator 2018 – 2022
Royal Swinkels (LIeshout, the Netherlands)
Bottling and packaging of cans, bottles, and kegs. Tasks included adjusting the machines, performing repairs, and converting the production lines

Product developer Feb 2022 – Jul 2022
Artidor Explosion Safety B.V. (Geldrop, the Netherlands)
Development of an explosion-safe air conditioner, adhering to the latest regulations about explosion safety and refrigerant certification requirements.

OTHER EXPERIENCE

Graduation Internship Mar 2024 – Oct 2024
Kuhn (Geldrop, the Netherlands)
Development of a large square baler simulator tool to test the baler's control mechanisms.

Farm work: Contracting/Farm hand employee Nov 2024 – May 2025
Victoria, Australia
Operated large square balers and seeders, plus general farmhand tasks.

Graduated: April 2025

Jacob Wiedijk

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PERSONAL NOTE

My personal interests are mainly found in the agricultural and timber sector, regarding engineering, entrepreneurship, product management and sales. I like to talk to customers and am open to receiving feedback to implement in product development. In my studies I therefore focused on innovation and entrepreneurship in the agricultural engineering domain.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
German	●●○○○

---------- SKILLS ----------

Python	●●●●●
MATLAB	●●●○○
R	●●●●○
Project Management	●●●●○
Business plan writing	●●●●○

Drivers Licence (B+BE+T)
Forklift certificate

-------- INTERESTS --------

Entrepreneurship
Trading
Machine Learning
Data Analysis
Marketing
Product Management

--------- HOBBIES ---------

Wood working
Hanging out with friends

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Farm technology, MSc track Entrepreneurship
Thesis: *Systems design of a precision manure application system for grasslands in the Netherlands, application of source segregated dairy excreta.*

BSc Biosystems Engineering (Agrotechnologie) 2019 – 2022
Wageningen University & Research, Wageningen
Orientation/specialisation: Minor innovation and entrepreneurship
Thesis: *Effects of ventilation rate on ammonia emission and pressure distribution from the Lely Sphere system in a dairy barn*; Research on the Lely Sphere to experiment with lowering the energy consumption of the Sphere system.

WORK EXPERIENCE

Owner 2022 – present
Wiedijk wood products (Jorwerd, the Netherlands)
Wiedijk wood products is specialized in manufacturing outdoor furniture and various customer-specific products and projects, from start to end. I am also responsible for marketing and sales. Next to furniture also trading in timber.

General employee 2016 – present
Haalbouw B.V. (Jirnsum, the Netherlands)
Side job in which I am responsible for stocking products, forklift operation, wood working with different machines, advising and selling wood to customers.

OTHER EXPERIENCE

Board member of "Stichting Spulwike" 2025 – present
Easterlittens, the Netherlands
Chair of a volunteer organisation which organises an activity week for 750 primary school children with a total of 150 volunteers in the former municipality Littenseradiel.

Internship: Research on potato planting Sep 2024 – Dec 2024
Dewulf B.V. (Winsum (FRL), the Netherlands)
Research on optimal potato growing environment regarding soil crumbling and how a tillage machine impacts the soil crumbling.

Board member of student association "W.S.S.F.S." 2021 – 2024
Wageningen, the Netherlands
Chair, vice president and several committees.

Graduated: July 2025

Derek te Bokkel

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Address : Aalten, the Netherlands

PERSONAL NOTE

I am an enthusiastic biosystems engineering student with a strong interest in arable farming, automation systems, and modelling. In my Master's and Bachelor's studies, I focused on optimisation and improving resource efficiency through modelling. Additionally, working on my family's small arable farm has strengthened my practical knowledge of agriculture and machinery. I am curious, adaptable, and I enjoy collaborating in a team.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
German	●●○○○

---------- SKILLS ----------

Python	●●●●●
Autodesk Inventor	●●●○○
MATLAB	●●●○○
Microsoft Excel	●●●●○
Teamwork	●●●●○
Java	●●○○○
Modelling	●●●●○
Work ethic	●●●●○

Drivers Licence (B+BE+T)
Forklift certificate

-------- INTERESTS --------

System analysis & modelling
Arable farming
Grassland technology
Machine manufacturing
Soil-plant relations

--------- HOBBIES ---------

Working on the farm
Sports
Reading
Contact with family and friends
Movies

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Farm technology, machine learning, software engineering.
Thesis: *Optimising grassland management: developing a model to predict grass yield and quality for Dutch dairy farmers.* Adapting and combining existing mathematical models.

BSc Biosystems Engineering (Agrotechnologie) 2018 – 2021
Wageningen University & Research, Wageningen
Orientation/specialisation: Field Robot Event, data management, decision science.
Thesis: *The design of a crop allocation model for arable farmers.* A mathematical model that considers various factors and aims to maximize profits.

WORK EXPERIENCE

All-round agricultural employee 2014 – present
Arable farm (Aalten, the Netherlands)
Actively involved in my parent's arable farm from a young age. I perform various tasks such as cultivation, planting, machine maintenance, and crop planning.

Student assistant CAD Inventor 2022
Wageningen University (Wageningen, the Netherlands)
Assisted students with CAD Inventor in the Agrotechnology bachelor courses CAD & Mechanics and Engineering Design.

Work Student LTO Noord 2023
UniPartners Wageningen (Wageningen, the Netherlands)
Development of a tool to calculate the profitability of storing solar and wind energy in batteries.

OTHER EXPERIENCE

Internship: Improvement of the grain yield measurement system 2025 – present
NEXAT GmbH (Rieste, Germany)
Improvement of a physical test bench to analyse and predict grain mass flow. Implementation and validation of the solution in NEXAT's combine harvester.

Treasurer 5th of May Committee 2023
KSV Sint Franciscus Xaverius, (Wageningen, the Netherlands)
Part of the committee that organised a stage at Liberation Festival Gelderland.

Graduated: July 2025

Jordy Brink

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Nationality : Dutch
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PERSONAL NOTE

With a positive attitude and a structured work style, I am driven and always eager to acquire new knowledge and skills. My curiosity enables me to quickly understand and apply new concepts and techniques. I enjoy contributing to optimization and am constantly looking for ways to improve efficiency and effectiveness. My interest in machines and agriculture fuels my passion for innovation within the agricultural sector.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
German	●●○○○

---------- SKILLS ----------

Python	●●●●●
MATLAB	●●●○○
CAD	●●●○○
Project management	●●●●○
Artificial intelligence	●●●●○
Copilot/ChatGPT	●●●●●

Drivers Licence (B)
Forklift certificate

-------- INTERESTS --------

Machine/Deep Learning
Plant biology
Sensor technology
Information systems
Product development

--------- HOBBIES ---------

Mountain biking
Working on cars
Gaming
Contact with family and friends

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Information technology
(greenhouse, remote sensing, machine/deep learning, software)
Thesis: *Grass tedding anomaly detection using machine learning (Kubota) Information system towards autonomous implementation for detection of anomalies built onto the tedder using multiple sensors.*

BSc Biosystems Engineering (Agrotechnologie) 2020 – 2023
Wageningen University & Research, Wageningen
Orientation/specialisation: plant biology and GIS
Thesis: *Using Mask R-CNN to detect plant parts on a tomato plant.*

WORK EXPERIENCE

Garden centre warehouse and delivery worker 2020 – present
Intratuin Heerhugowaard (Heerhugowaard, the Netherlands)
- Customer contact
- Technical insight
- Collaborative work

Pancake chef at restaurant 2018 – 2020
De Bolle Buik (Heerhugowaard, the Netherlands)
- Working under pressure
- Planning and collaboration

Flower cultivation worker 2016 – 2019
Niels Jonker (Heerhugowaard, the Netherlands)
- Automated table system for tulips
- Cultivation of other flowers
- Collaborative work
- Technical insight

OTHER EXPERIENCE

Internship: Deep learning feature space analysis 2025 – present
TTA - ISO (Gameren, the Netherlands)
To innovate their machines a deep learning small plant material detection model was analysed. A feature space overview of multiple layers gave an insight into the model.

Graduated: July 2025

Dirk van Ditshuizen

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PERSONAL NOTE

My personal interests lie in the agricultural and food sector. I come from a Blonde d'Aquitaine farm which gave me a lot of experience with the agricultural sector. My study program enabled me to get a more in-depth unde rstanding of the technology in the sector. I like to work entrepreneurially so that I can solve problems optimally and learn from them. In the future I would like to work with the agricultural sector, science related, but also economically oriented.

------ LANGUAGES ------

Dutch ●●●●●
English ●●●●○
German ●●○○○

---------- SKILLS ----------

Python ●●●●○
MATLAB ●●○○○
Project management ●●●●○
Business plan writing ●●●●○
Accounting ●●○○○

Drivers Licence (B+T+AM)

-------- INTERESTS --------

Agricultural sector
Machine/bioprocess design
Decision science
Finance/economics

--------- HOBBIES ---------

Football
Contact with family and Friends
Gym
Farm
Investing
Golf

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation: Operations Research and Logistics. Electives: Risk Management in Food supply chains, Sustainability Analysis, Non Linear Decision Science, Economics of Animal health and Food Safety.
Thesis: *Modelling farm to factory raw-milk transport to optimally valorize milk streams with an emphasis on model maintainability*

BSc Biosystems Engineering (Agrotechnologie) 2020 – 2023
Wageningen University & Research, Wageningen
Electives: Biology of Domestic Animals, Grassland Science, Agricultural BusinessEconomics, Economics of Agribusiness, Decision Science for Technology.
Thesis: *Including nitrogen balances in a Bio-economic Farm Model to assess optimal farm management decisions.*

WORK EXPERIENCE

R&D Poultry Intern 2025 – present
De Heus (Ede, the Netherlands)
Modelling chicken growth and identifying factors influencing the growth along with feed formulation.

Member council of members 2023 – present
Rabobank Noord- en Oost- Achterhoek (Zutphen, the Netherlands)
Attending member council meetings & youth money-pot committee
Representing the members and thinking critically about the direction of the bank.

Sales employee 2019 – present
Aldi Groenlo BV (Ruurlo, the Netherlands)
Packaging of food & cash register & customer contact.

MSc. Thesis Intern (Global Supply Chain) 2024 – 2025
Friesland Campina (Amersfoort, the Netherlands)
Modelling raw-milk allocation from farm to factory, to optimize the supply chain. Using an Mixed Integer Linear Programming approach.

Graduated: July 2025

Maud Janssen

Date of birth : 21-03-2002
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LinkedIn : www.linkedin.com/in/maud-janssen
Address : Middenmeer, Nederland

PERSONAL NOTE

I am passionate about automating both existing and emerging production systems, with a strong focus on vision, deep learning, and data processing, areas that were central to my master's degree and thesis. I am driven, social, and eager to learn and motivated to apply my expertise in the agricultural sector, particularly in livestock, vision technology, and research.

------ LANGUAGES ------

Dutch ●●●●●
English ●●●●○

---------- SKILLS ----------

Programming ●●●●○
Computer vision ●●●●○
Data analysis ●●●●○
Project management ●●●○○
Design ●●●○○

Drivers Licence (B)

-------- INTERESTS --------

Machine Learning
Data analysis
Livestock & agricultural innovations

--------- HOBBIES ---------

Running
Reading
Contact with family and friends

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Farm Technology
Thesis: *Detecting dustbathing hens with deep learning.*

BSc Biosystems Engineering (Agrotechnologie) 2020 – 2023
Wageningen University & Research, Wageningen
Thesis: *Detecting respiratory and heart rate in calves with a thermal camera.*

WORK EXPERIENCE

Allround Farm Employee 2017 – present
VOF De Zijvond (Dreumel, the Netherlands)
VOF De Zijvond is my family's dairy farm, where I enjoy helping with daily tasks such as milking the cows and fieldwork. Here I learned the fundamental principles of (dairy) farming.

Student Assistant course Programming in Python 2024
Wageningen University (Wageningen, the Netherlands)
As a student assistant, I supported the teachers by answering questions and assisting students who followed the Programming in Python course.

Technology Specialist 2023 – 2024
Friesland Campina (Amersfoort, the Netherlands)
At FrieslandCampina, I worked on various projects related to knowledge management within the technology team. This experience improved my ability to work independently.

OTHER EXPERIENCE

Internship: Capture and analyse feed data 2025 – present
JOZ (Westwoud, the Netherlands)
During this internship, I capture and analyse feed data from the feeding alley to provide valuable insights for farmers.

Committee member of study association Heeren XVII 2020 – 2024
Wageningen, the Netherlands
Member of different committees such as the education quality committee, gala committee and the committee for the periodic booklet.

Graduated: July 2025

Robin Melenhorst

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Address : Ede, the Netherlands

PERSONAL NOTE

People see me as a driven, reliable and enthusiastic person. Over the years, I gained practical experience in dairy farming. I get motivated by tackling challenges and enjoy the process of finding innovative solutions together. Driven by my passion for livestock farming and my openminded approach, I look forward to contribute to innovative and sustainable farming solutions.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
German	●●○○○

---------- SKILLS ----------

Programming	●●●●○
Project management	●●●●●
Microsoft Office	●●●●○
Presenting	●●●●○
Flexible	●●●○○
Critical thinking	●●●●○

Drivers Licence (B+T)
VCA certificate (VCA-basis)

-------- INTERESTS --------

Data analysis
Livestock farming
Artificial intelligence
Programming
Precision farming

--------- HOBBIES ---------

Tennis
Motocross
Woodcarving
Meeting family and friends

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Farm technology & Information technology.
Thesis: *"Automated multi-variable approach for classification of teat-end hyperkeratosis of dairy cows"*
(Development of a multi-variable and deep learning based classification algorithm which classified teat-end hyperkeratosis of dairy cows).

BSc Biosystems Engineering (Agrotechnologie) 2020 – 2023
Wageningen University & Research, Wageningen
Orientation/specialisation: Farm technology.
Thesis: *"Path planning of manure robots to optimise animal welfare"*
(Development of a dynamic path planning approach by modelling defecation behaviour and locations of dairy cows).

WORK EXPERIENCE

General employee 2022 – present
Melkveebedrijf Ondersteijn V.O.F. (Berlicum, the Netherlands)
Responsible for carrying out various tasks on and near the dairy farm. For example including feeding of cows, various machine work tasks, checking of cows and general maintenance of machines and buildings.

General employee 2021 – 2022
Loonbedrijf Jennissen BV. (Berlicum, the Netherlands)
Responsible for carrying out various tasks in the field of earthworks, cultural engineering and agricultural contracting. For example including the transport of soil and forage, preparation of land for planting and chopping of grass and maize.

General employee 2018 – 2021
Melkveebedrijf Ondersteijn V.O.F. (Berlicum, the Netherlands)
Responsible for carrying out various tasks on and near the dairy farm. For example including feeding of cows, various machine work tasks, checking of cows or general maintenance and machines and buildings.

OTHER EXPERIENCE

Writer 2021 – 2022
AgriMedia bv. (Bennekom, the Netherlands)
Writing articles for the "Veehouderij Techniek" magazine. This involved interviewing users and writing articles about different types of machinery.

Graduated: July 2025

Marjon van Overveld

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Woonplaats : Oudemolen (NB) / Wageningen

PERSONAL NOTE

I am an enthusiastic and driven person who strives to bring out the best in myself. I'm not afraid to roll up my sleeves and have already gained a lot of work experience on our dairy farm and at other companies. Additionally, I am eager to learn and always happy to help others wherever possible. My family describes me as curious, honest, friendly, and spontaneous. In my work, I focus not only on completing my tasks but also on improving the way they are carried out. I enjoy finding ways to make processes more efficient, accurate and enjoyable.

------ LANGUAGES ------

Dutch (native) ●●●●●
English (C1 Advanced) ●●●○○

---------- SKILLS ----------

Microsoft Office ●●●●○
Python ●●●●○
MATLAB ●●●○○
R (RStudio) ●●●○○
AutoCAD ●●○○○

Presenting ●●●●○
Teamwork ●●●●○
Independent work ●●●●○

Drivers Licence B, BE, T

-------- INTERESTS --------

Agricultural sector
Playing sports
Technology
Creative projects

EDUCATION

MSc Biosystems Engineering 2023 - present
Wageningen University & Research, Wageningen
Orientation: Farm Technology, Operation Research and Logistics and Information Technology.
Thesis: *Classifying ammonia emission of dairy barns using transfer learning on imaged time series data.*
Internship: Generating synthetic images to efficiently expand datasets

BSc Biosystems Engineering (Agrotechnologie) 2020 – 2023
Wageningen University & Research, Wageningen
Orientation: Farm Technology, Operation Research and Logistics and Information Technology
Thesis: *Automatic recognition of pig posture and movement to analyse pig behaviour using computer vision.*

VWO diploma, Cum Laude 2014 – 2020
Norbertus College, Roosendaal
Track: Science&Technology and Science&Health, extra course: economics
Additional certificates: Econasium, Cambridge English, Beta-Excellent

WORK EXPERIENCE

Cleaner, kitchen assistant and waitress 2017 – present
Hotel, Restaurant, Grand-Café, and Salon Mauritz, Willemstad
Responsible for cleaning hotel rooms / restaurant on weekends. Preparing and serving breakfast. Additionally, serving food and drinks at parties, and in the restaurant.

Partner in dairy farm 2018 – present
Van Overveld VOF (Oudemolen, Netherlands)
Insight in financial aspects of the farm and assisting with various tasks such as feeding and caring for calves and cows on the farm.

Seasonal work, including:
- Responsible for lambing at Van Driel Landschapsbeheer
- Weeding at organic arable farm VOF van Dis-Brooijmans

OTHER EXPERIENCE

- Secretary and Chair of Study Association Heeren XVII
- Tutor Mathematics, Chemistry, and Physics
- Various committees organizing sports events, educational events and parties

Graduated: July 2025

Thijmen Ros

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PERSONAL NOTE

Motivated student with a passion for agriculture and mechanization. Lots of practical knowledge that combines well with the knowledge gained from the bachelor Agrotechnology and the master Biosystems Engineering. Looking forward to applying myself for more innovation in agriculture.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
German	●●●○○

---------- SKILLS ----------

Python	●●●●○
MATLAB	●●○○○
Project management	●●●○○
Business model evaluat.	●●●●○

Drivers Licence (T + B + BE)

-------- INTERESTS --------

Precision farming
Robotics
Heavy equipment

--------- HOBBIES ---------

Carpentry

EDUCATION

MSc Biosystems Engineering 2023 - present
Wageningen University & Research, Wageningen
Orientation: During the master courses I focused on Geo Information Science and mobile robotics. Further courses in modelling and animal nutrition.
Thesis: *My thesis subject is optimization of route planning for autonomous capacitated vehicles.*

BSc Biosystems Engineering (Agrotechnologie) 2019 – 2023
Wageningen University & Research, Wageningen
Orientation: Diverse set of courses including robotics, modeling and process technology.
Thesis: *My bachelors thesis was about the possibilities for more manure processing to improve the mineral (re)use in agriculture*

WORK EXPERIENCE

Allround Employee Demolition/Groundwork 2022 – present
BMG Grond en Sloop service (Wageningen, the Netherlands)
Transport and regular maintenance of earthmoving equipment. Material transport with tractors. Organizing inventory of construction materials, weighbridge operator. Mostly on Saturday and during vacations.

Mechanic heavy equipment 2019 – 2023
Grovema (Ede, the Netherlands)
Disassembling and assembling excavators and material handlers of the brand Liebherr. Inspecting and checking used parts and preparing them for reuse or sale. Worked here during vacations.

Weekend worker goat farm 2015 – 2023
MTS van Roekel (Bennekom, the Netherlands)
Milking the goats in the weekends

OTHER EXPERIENCE

Board member of study association “Heeren XVII” 2022 –2023
Wageningen, the Netherlands
Commissioner of External Affairs part, I was responsible for contact between with companies in the agricultural engineering sector and our association. Additionality, responsible for organizing open days for new potential students.

Graduated: July 2025

Yanniek Westhoff

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Address : Oude Niedorp/Wageningen, the Netherlands

PERSONAL NOTE

Growing up in the countryside, I have always been surrounded by agriculture. My main interests are in the livestock sector and new techniques. I am a goal oriented person with an eye for detail, and I like to work in a team setting. I am curious and eager to learn, but I also like to explain things to others.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
German	●●○○○

---------- SKILLS ----------

Python	●●●●○
Microsoft Office	●●●●○
Rstudio	●●●●○
Project management	●●●●○
SQL	●●○○○

Drivers Licence (B)

-------- INTERESTS --------

Farm Technology
Sensor Data
Data analysis

--------- HOBBIES ---------

Running
Skiing and snowboarding
Meeting with family and friends

EDUCATION

MSc Biosystems Engineering 2023 - present
Wageningen University & Research, Wageningen
Specialisation: Farm Technology
Other Courses: Sensor Data in Animal Science, Quality of Animal Products, Greenhouse Technology, Machine Learning
Thesis: *Measuring ammonia and methane emissions of a free-range pig farm using an inverse-dispersion technique (Determining the emissions of Zonvarken using the backward Lagrangian Stochastic model)*

BSc Biosystems Engineering (Agrotechnologie) 2020 – 2023
Wageningen University & Research, Wageningen
Specialisation: Farm Technology
Thesis: *Effect of behaviour on the heart rate and respiration rate in new-born dairy calves*

WORK EXPERIENCE

All-round employee 2018 – present
Kruijer Tulpen ('t Veld, the Netherlands)
Depending on the season, involved in various stages of the cultivation and processing of flower bulbs and tulips. Working efficiently, accurately, and problem-solving within a team, while also supervising students and (international) employees.

Sailing instructor 2018 – 2022
Zeilschool- Bootverhuur Het Uitgeestermeer (Uitgeest, the Netherlands)
During the summer breaks, provided sailing lessons in various disciplines. Over a period of one week, responsible for a group of children aged 7 to 16.

OTHER EXPERIENCE

IInternship: Forecasting emissions of forced-ventilated farms 2025 – present
Connecting Agri and Food (Uden, the Netherlands)

Graduated: July 2025

Nynke de Wilde

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PERSONAL NOTE

I have always believed that small things can make a difference. As a driven student with a great passion for the agricultural sector, I enjoy contributing to innovative solutions. I have an open mindset and get energy from trying new things. I find fulfilment in helping others and achieving goals. With my eye for detail and structured approach, I contribute to finding solutions for various challenges.

------ LANGUAGES ------

Dutch ●●●●●
English ●●●●○
German ●●○○○

---------- SKILLS ----------

Programming ●●●●○
Project management ●●●●○
CAD Software ●●●○○
Systematic thinking ●●●●○

Drivers Licence (B)

-------- INTERESTS --------

Biosystems design
Farm technology
Animal nutrition
Sensor data
Crop production

--------- HOBBIES ---------

Animal care
Cycling
Running

EDUCATION

MSc Biosystems Engineering 2023 - present
Wageningen University & Research, Wageningen
Orientation/specialisation: Farm Technology
Thesis: *Determining ammonia emission from pig houses with an outdoor run using a modelling approach.*

BSc Biosystems Engineering (Agrotechnologie) 2020 – 2023
Wageningen University & Research, Wageningen
Orientation/specialisation: Farm Technology
Thesis: *Structured design of future-proof housing systems for does in the Dutch rabbit meat sector.*

WORK EXPERIENCE

All-round employee organic seed breeding company 2022 – present
De Bolster biologische zaden (Epe, the Netherlands)
As an all-round employee I take care of the crops in the field, wrap seeds and pick orders.

All-round employee animal hotel 2016 – present
Dierenpension Shanai (Vaassen, the Netherlands)
As an all-round employee I take care of the animals, monitor their well-being and help customers where needed.

OTHER EXPERIENCE

International Student Prize – Claas Foundation 2023
For my thesis of the BSc. programme Biosystems Engineering at Wageningen University, I was awarded the CLAAS Foundation International Student Prize 2023. This prize is awarded annually for the best BSc. thesis at Wageningen University in the field of Agricultural Engineering.

Graduated: July 2025

Melania Zanforlin

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Address : Wageningen, The Netherlands

PERSONAL NOTE

I am a passionate and dedicated individual with a solid engineering background, complemented by a strong foundation in humanities from my classical education (ancient Greek, Latin, philosophy). My MSc thesis provided me with expertise in stochastic and robust optimization. Known for my precision, hard work, and disciplined approach, I consistently strive for excellence in both academic and professional settings.

------ LANGUAGES ------

English (C2)	●●●●●
Russian (B2)	●●●●○
French (A2)	●○○○○
Spanish (A2)	●○○○○
Italian (Native)	●●●●●

---------- SKILLS ----------

C	●●●●○
R	●●●●○
Python	●●●○○
Fico Xpress	●●●○○
MATLAB	●●●●○
ArcGIS and QGIS	●●●●○
LaTeX	●●●●○
SQL	●●●○○

-------- INTERESTS --------

Protein Transition
Alternative Proteins
Programming
Control Engineering
Logistics
Modelling

--------- HOBBIES ---------

Social Activities
Volunteering
Rhythmic Gymnastics
Cooking
Reading

EDUCATION

MSc Biosystems Engineering 2023 - present
Wageningen University & Research, Wageningen
Orientation/specialisation: ORL and FTE
Thesis: *Optimizing Protein Transition and Enhancing Resilience under Uncertainty (Grade: 9/10).*

MSc Honours Programme 2023 - 2024
Wageningen University & Research, Wageningen
Extracurricular programme. Worked in a project team on Cellular Agriculture

BSc Environmental and Land Planning Engineering 2018 – 2022
Politecnico di Milano, Milan (Italy)
Grade: 103/110. Most relevant courses: Modeling & Simulation, Analysis and Management of Environmental Systems, Ecology.

WORK EXPERIENCE

Teaching Assistant courses Decision Science for Technology and Food Production Chains 2025

Teaching Assistant course Modelling of Biobased Production Systems 2024
Wageningen University & Research, Wageningen

Student assistant Academic Preparation Week 2024
Wageningen University (Wageningen, the Netherlands)
Supported new students in the Biosystems Engineering master's programme.

GIS Technician 2022 - 2023
Comune di Seriate (Seriate, Italy)
Key member of a team that reorganized and updated the Municipal Geoportal.

Tutor courses Computer Science and Structural Mechanics 2021 - 2023
Politecnico di Milano, Milan (Italy)

OTHER EXPERIENCE

Finalist in the ReThink Food Student Challenge 2024 – present
Wageningen University & Research, Wageningen

Activist for LAV 2020 – 2023
Bergamo, Italy

Graduated: August 2025

Wout Geurts

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Address : Oirlo, Netherlands

PERSONAL NOTE

My personal interests are mainly in the automation and economics of current agricultural production systems. I worked a lot with optimization problems and the programming of robots. For working, I am a precise and driven worker. In the future I like to work in the agricultural sector, especially with robotics, economics and crop production.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
German	●●●○○

---------- SKILLS ----------

Python	●●●●○
MATLAB	●●●○○
GAMS	●●●○○
Project management	●●●○○
CAD	●●○○○
FICO Xpress	●●○○○

Drivers Licence (B+BE+T+C+CE)

-------- INTERESTS --------

Robotics
Biosystems design
Agricultural economics
Optimization problems
Crop production
Precision farming

--------- HOBBIES ---------

Football
Working on the farm
Engineering projects
Time with family and friends

EDUCATION

MSc Biosystems Engineering 2023 - present
Wageningen University & Research, Wageningen
Orientation/specialisation: Robotics, Entrepreneurship, Decision science
Thesis: *Exploring alternative integrated crop and livestock system strategies to improve the circularity of livestock production in the Netherlands.*

BSc Biosystems Engineering (Agrotechnologie) 2019 – 2023
Wageningen University & Research, Wageningen
Orientation/specialisation: Agricultural economics, Plant production
Thesis: *Classifying Erwinia infected potato plants with EfficientNet models using RGB images.*

WORK EXPERIENCE

All-round employee on arable farm 2014 – present
Landbouwbedrijf Geurts-Pouwels (Oirlo, the Netherlands)
All sorts of farm-related tasks such as field operations with tractors, transport of goods with truck, and maintenance of machinery.

Electrician 2020 – 2021
Electro Gommans (Oirlo, the Netherlands)
Installing sockets, lights etc.

Solar panel installer 2018 – 2019
Hoezen zon en energie (Holthees, the Netherlands)
Installing solar panels.

Graduated: August 2025

Stefan Jannink

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Address : Haaksbergen (Netherlands)

PERSONAL NOTE

I grew up on a farm, resulting in a passion for agriculture and technology. During my studies I focussed on robotics, AI (machine/deep learning), machine vision, and other disciplines like design, modelling and remote sensing. I prefer a structured working approach, where I want to thoroughly understand a problem, and use and expand my knowledge to find the optimal solution.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
German	●●●○○

---------- SKILLS ----------

Python	●●●●○
Design	●●●●○
R	●●●○○
Matlab	●●●○○
Modelling evaluat.	●●○○○

Drivers Licence (B)

-------- INTERESTS --------

Machine/deep Learning
Machine Vision
Robotics
Solution design
Data analysis and modelling

--------- HOBBIES ---------

Tinkering
Mountainbiking
Traveling
Reading
Spending time with family and friends

EDUCATION

MSc Biosystems Engineering 2023 - present
Wageningen University & Research, Wageningen
Orientation/specialisation: Besides the compulsory courses I followed course regarding Mobile robotics, remote sensing, machine/deep learning and software development.
Thesis: *Evaluating the performance of deep learning at predicting various tree attributes in apple trees using point clouds. I did this thesis at OnePlanet Research Centre, which is part of Imec, and is located in Wageningen.*

BSc Biosystems Engineering (Agrotechnologie) 2019 – 2023
Wageningen University & Research, Wageningen
Orientation/specialisation: For my minor I broadened my knowledge by following courses regarding geo-information science and plant/animal physiology. I also did a Field Robot Design course, for which I participated with a team on the Field Robot Event in Mannheim in 2022.
Thesis: *Effect of a wet and dry slurry tray system and chalk use on the ammonia emission from farrowing sows*

WORK EXPERIENCE

All-round employee Fruit tree Nursery 2015 – present
Aatree (Buurse, the Netherlands
At this side job, I am involved in various activities related to growing and selling fruit trees. I advise customers and I hold a supervising role to ensure all activities are performed correctly colleagues.

Internship: animal detection 2025 – present
Robor Electronics (Bentelo, the Netherlands)
My internship project is about wildlife detection and tracking using a thermal camera mounted on a drone using traditional computer vision techniques.

OTHER EXPERIENCE

Board member of student association “T Noaberschop” 2021 – 2022
Wageningen, the Netherlands
During this 2 year board function I participated in a wide varity of tasks, including sponsorships arrangements, organizing all various events and activities and designing and selling ‘geveltekens’ for customers. Additionally I was part of several commitees working on e.g. organizing a Lustrum.

Graduated: August 2025

Jingxi Li

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Address : Wageningen, Netherlands

PERSONAL NOTE

My interests lie in integrating technology to enhance system performance and drive digitalization. I have experience in physical modelling and data-driven modelling using machine learning-based methods. In addition, I have acquired knowledge in system control and computer vision during my studies. In the future, I would like to work as a data analyst or system engineer, specializing in system modelling, machine learning, and system control across various fields.

------ LANGUAGES ------

Chinese	●●●●●
English	●●●●○
Dutch	●○○○○

---------- SKILLS ----------

Python	●●●●○
MATLAB	●●●○○
Modelling	●●●●○
Machine learning	●●●●○
Reinforcement learning	●●●○○
Data analysis	●●●○○
Microsoft Office Suite	●●●○○
Teamwork	●●●●○
Critical thinking	●●●○○

-------- INTERESTS --------

System modelling
Machine learning
Data analysis
Computer vision

--------- HOBBIES ---------

Playing squash
Doing Handicrafts
Traveling
Contact with family and friends

EDUCATION

MSc Biosystems Engineering 2023 – present

Wageningen University & Research, Wageningen

Orientation/specialisation: Agricultural Biosystems Engineering

Thesis: *Model-based study on the sustaninability performance of a vertical farming system driven by renewable energy sources*

• Description: Developed a control-oriented vertical farm model and implemented it in Python. Applied rule-based control method to maintain the ideal indoor climate conditions and integrated renewable energy sources to decrease environmental impacts.

BSc Intelligent agriculture 2019 – 2023

Huazhong Agricultural University, Hubei, China

Orientation/specialisation: Plant Phenotyping

Thesis: *Research on point cloud organ segmentation and parameter extraction method for maize at the tasseling stage*

• Description: Implemented preprocessing techniques for raw point cloud data including filtering, downsampling, and denoising. Applied cylindrical neighborhood search and density-based clustering methods to segment the main stem and leaves. Evaluated the accuracy and reliability of 3D phenotyping methods by comparing calculated and true values.

WORK EXPERIENCE

Academic Consultancy Training 2024 – 2024

Wageningen University & Research (Wageningen, the Netherlands)

Topic: Developing strategies for future market in a plant sensor company

• Conducted interviews with potential stakeholders and performed qualitative data analysis on the transcripts using ATLAS.ti software, extracting valuable insights to support the decision-making.

OTHER EXPERIENCE

Course project: Management of Information Systems 2024

Wageningen University & Research (Wageningen, the Netherlands)

Topic: Data-driven management of sustainability in horticulture

• Identified key components of the information system from registration to sales, and applied business process modeling, domain modeling, and high-level architecture design techniques to develop an innovative information system.

Graduated: August 2025

Micha Nelis

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Address : Maasdijk, Netherlands

PERSONAL NOTE

Results driven 2nd year master student with a passion for all things greenhouses. Determined to do his part in improving the sustainability and cultivation efficiency of the sector and already looking forward to the autonomous greenhouse of the future.

------ LANGUAGES ------

Dutch ●●●●●
English ●●●●●

---------- SKILLS ----------

Python ●●●●●
Climate Modelling ●●●●●
Greenhouse tech. ●●●●○
Plant Modelling ●●●●○
Non-linear optimization ●●●●○
Linear optimization ●●●○○
Excel ●●●○○
Control engineering ●●●○○

-------- INTERESTS --------

Greenhouses
Solving problems
Optimization
Coding

--------- HOBBIES ---------

Theatre
Contact with family and friends

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Greenhouse Technology
Thesis: *Greenhouse layout planning for the tomato production concept TOM4.0.* I build a combined plant & logistics model of TOM4.0, and used it to calculate the optimal greenhouse layout and plant density, among other things.

BSc Biosystems Engineering (Agrotechnologie) 2021 – 2023
Wageningen University & Research, Wageningen
Orientation/specialisation: Plant Science
Thesis: *Maximizing the utility of an air source heat pump for greenhouse operations using the IPOPT algorithm.* I calculated the optimal heating regime for a heat pump or CHP equipped greenhouse using a genetic algorithm.

WORK EXPERIENCE

Student assistant course Building Physics & Climate Engineering 2024 – 2024
Wageningen University (Wageningen, the Netherlands)

Student assistant course Big Data 2022 – 2022
Wageningen University (Wageningen, the Netherlands)

OTHER EXPERIENCE

Internship: a digital twin for the TOM4.0 greenhouse: finding 2025 – present
Ridder (Maasdijk, the Netherlands)
I am continuing the work I did in my master thesis, by converting the TOM4.0 model into a true digital twin that can not only predict but also achieve the desired harvest size based on a flexible heating and lighting regime.

Board member of theatre club 2020 – present
Wageningen, the Netherlands
As a board member, I helped to organise and execute 2 paid events per year, where at different points, I have been responsible for the writing, logistics and costume teams. This experience has improved my teamwork, leadership and communication qualities and has made me see the importance of always staying flexible.

Graduated: August 2025

George Truijens

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Address : Laren, the Netherlands

PERSONAL NOTE

My mission in life is to create innovative systems that improve the well-being of animals. I am always in search of new knowledge, experience and like-minded people to realize this ambition. My entrepreneurial mindset, combined with my analytical skills, enables me to identify shortcomings in current systems and develop alternatives that achieve harmony between people, planet, and profit.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●●

---------- SKILLS ----------

Analytical	●●●●●
Entrepreneurial	●●●●○
Critical	●●●●○
Creative	●●●●○
Teamwork	●●●○○
System Design	●●●●○
Data Analysis	●●●●○
Data Processing	●●●●○
Feature Engineering	●●●○○
Python	●●●●○
Pose Estimation	●●●●○
Object Detection	●●●●○
Linux	●●●○○
Welfare Indicators	●●●○○

Applied Ethology of the dog
VCA (V.O.L.)
NEN 3140 (VP)
Drivers Licence (B)

-------- INTERESTS --------

Machine Learning
Computer Vision
Process Automation
Animal Welfare
Applied Ethology

--------- HOBBIES ---------

Tennis
Running
Hiking
Dog Training

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Information Technology, Artificial Intelligence
Thesis: *Automated classification of dog behaviour from video images*
The first Systematic Literature Review on this topic and a case study developing an explainable social behavior classifier based on pose estimation.

B.E. Electrical Engineering 2015 – 2021
Hogeschool Utrecht, Utrecht
Orientation/specialisation: Industrial Automation, Process Automation
Graduation Internship: *Power over Fiber in Industrial Automation*
Developed a Proof of Concept for Yokogawa B.V. using Power over Fiber to bring digital data communication to 4-20mA Transmitters.

WORK EXPERIENCE

Internship: Computer Vision for Livestock Health 2024 – present
Lely Technologies N.V. (Maassluis, the Netherlands)
Researching and developing computer vision software to improve the well-being of cows.

Research Assistant 2024
Wageningen University (Wageningen, the Netherlands)
In the the HeatSense project, researched and developed temperature and humidity models, along with a reinforcement learning based ventilation control algorithm for improving the well-being of poultry.

Voluntary: Puppy foster home 2001 – 2017
KNGF (Laren, the Netherlands)
I've looked after and trained dogs for the guide dog organization KNGF. This sparked my love for animals and their behavior.

OTHER EXPERIENCE

Challenge: ReThink Food Challenge 2024 – present
Wageningen University (Wageningen, the Netherlands)
Currently Top 20, engaging with my team SynerGrown to change the current food systems with serum-free alternative-protein for pets.

Graduated: September 2025

Rutger Stavenga

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Address : Zuidbroek/Wageningen, The Netherlands

PERSONAL NOTE

From a young age, I have had a strong passion for innovative agriculture. During my studies, my interest grew towards machine vision and robotics, in which I have further specialized. I am constantly looking for new challenges to improve my skills and develop new solutions within agrotechnology.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
German	●●●○○

---------- SKILLS ----------

Microsoft Office	●●●●●
Python	●●●●○
ROS2	●●○○○
MATLAB	●●○○○
Xpress IVE	●●●○○
Project management	●●●●○

Cambridge English level C1
Drivers Licence (B)

-------- INTERESTS --------

Machine Learning
Deep Learning
Robotics
Data Analysis
Software Engineering

--------- HOBBIES ---------

Cycling
Running
Skiing
Contact with family and friends

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Machine Vision, Robotics & Data Science
Thesis: *Predicting the accuracy of a plant detection model using deep feature similarities.*

BSc Agrotechnologie (Cum Laude) 2020 – 2023
Wageningen University & Research, Wageningen
Orientation/specialisation: Data Science, Operations Research & Logistics
Thesis: *Strategic network design for perishable products*

WORK EXPERIENCE

Parcel delivery PostNL 2021 – present
PostNL (Kolham, the Netherlands)
Alongside my university studies, I work at PostNL as a parcel delivery driver on weekends, during holidays, and occasionally in the evenings after classes. This job has taught me how to work efficiently and customer-focused within a large company.

Employee Dairy Farm 2012 – 2020
MTS Joling (Thesinge, the Netherlands)
From a young age, I started helping at my uncle's dairy farm, where I assisted with the daily tasks during weekends and holidays. These tasks included tractor work, feeding, milking, and various other chores.

Employee Horticulture 2015 – 2020
Dallinga, vd Zwet & Bronsema (Zuidbroek, the Netherlands)
As a part-time job during high school, I worked for several growers in my village on weekends and during holidays. The work for these growers varied from pruning hydrangeas and picking strawberries to repotting cacti.

OTHER EXPERIENCE

Internship 2025 – present
NEXAT GmbH (Rieste, Germany)
Assessment of crop conditions in front of NEXCO combine harvester.

Board member of study association "Heeren XVII" 2022 – 2023
Wageningen, the Netherlands
Secretary and Chair of study association Heeren XVII. Additionally, I was involved in several committees (e.g. Almanac committee, BuitEx 2024, Mastercommittee).

Graduated: September 2025

Jan-Willem Veldhuijsen

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Address : Rumpt, Netherlands

PERSONAL NOTE

With a drive and passion for livestock farming, technology, and agricultural innovation, I am always looking for ways to optimize processes and improve efficiency. I excel in creative and innovative thinking and can maintain a clear overview when solving complex challenges. My study focus on topics such as design & engineering, animal farming, systems & management, artificial intelligence, robotics, and software engineering. This broad range of subjects not only aligns with my interests and passion but also provides me with versatile knowledge across various fields.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
German	●●○○○

---------- SKILLS ----------

Python	●●●○○
MATLAB	●●○○○
Excel	●●●●○
Inventor	●●○○○
Problem solving	●●●●○
Creativity	●●●●●

Drivers Licence (B+BE,T,AM)

-------- INTERESTS --------

Robotics
Mechanics
Bioprocess design
Programming
Machine learning

--------- HOBBIES ---------

Agriculture
Play in a brass band
Repairing machines
Working with animals
Contact with family and friends

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Artificial Intelligence and robotics
Thesis: *In commission of Lely Industries N.V. (confidential)*

BSc Biosystems Engineering (Agrotechnologie) 2019 – 2023
Wageningen University & Research, Wageningen
Orientation/specialisation: Minor in animal farming: systems and management
Thesis: *Determining the effect of manure thickness on the ammonia emission and total N-loss from poultry manure.*

WORK EXPERIENCE

On-call worker butcher and catering 2022 – present
Arisse Vleesch (Beesd, the Netherlands)
During the catering of parties, overview and tight planning are essential, especially during crowds.

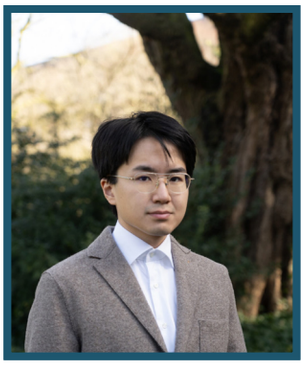
Head of access and ticket sale of country fair 2009 – present
Heerlijkheid Marienwaerdt (Beesd, the Netherlands)
Responsible for coordinating access control and ticket sales during a multi-day event with an average of 30,000 visitors. Supervise access control staff and serve as the first point of contract for visitors, ensuring a welcoming and efficient experience.

Agricultural worker 2007 – present
H. Berendse (Enspijk, the Netherlands)
Cattle trading and livestock for dairy, cattle and sheep.

OTHER EXPERIENCE

Intern Product Development System Engineering 2024 – 2025
Lely Industries N.V. (Maassluis, the Netherlands)
Master thesis on the subject of milk technology in cooperation with Wageningen University and Research.

Graduated: September 2025



Yinuo Xu

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Address : Wageningen/Delft, Netherlands

PERSONAL NOTE

Results-driven engineering professional with a solid background in robotics, automation and software engineering. Skilled in developing innovative solutions, optimizing complex systems, and delivering advanced projects with measurable outcomes. Eager to contribute technical expertise and cross-cultural experience to challenging projects in a dynamic environment.

------ LANGUAGES ------

Chinese	●●●●●
English (C1)	●●●●○
Dutch	●○○○○
Japanese	●○○○○

---------- SKILLS ----------

C/C++	●●●●●
NodeJS	●●●○○
Python	●●●○○
Rust	●●●○○
Linux CLI	●●●●●
Git	●●●●●
Matlab	●●●●●
ROS	●●●●●
OpenCV	●●●○○
Fusion360	●○○○○

-------- INTERESTS --------

Robotics
System Modelling
Network Engineering

--------- HOBBIES ---------

Cycling
Fishing

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Core Courses: Biosystems Design, Greenhouse Technology, Precision Farming, Supply Chain Design and Planning

Bachelor of Engineering in Automation 2018 – 2022
Shanghai Jiaotong University, P.R. China
Core Courses: Robotics, Control Systems, Embedded Systems, Signals and Systems, Machine Learning, Power Electronics.

WORK EXPERIENCE

Network Engineer 2022 – 2023
China Telecom Corporation Limited, Shanghai Branch
- Designed, deployed, and maintained the Shanghai Next-Generation Metropolitan Area Network for scalable and robust infrastructure.
- Developed automated network monitoring and configuration deployment program for IPRAN nodes.
- Co-led the East China Normal University campus 5G network project; designed and supervised the deployment of the network topology and authentication framework

Intern – Video Processing Development 2021
Mira Video Group, Shanghai Baixing.com Co., Ltd.
- Developed a modern video processing engine using NodeJS and integrated semantics AI techniques to enhance processing capabilities.
- Increased video processing efficiency by approximately 600% through algorithm optimization and streamlined code execution.
- Assisted in implementing and testing advanced video encoding features, contributing to a more efficient product offering.

OTHER EXPERIENCE

Bachelor Thesis: Privacy-preserving Computation under Multiparty Supervision 2021 – 2022
Developed a zero-knowledge proof scheme for secure multi-party financial computations in collaboration with AntChain. Established a proof-of-concept enhancing data security and enabling decentralized privacy calculations of zkSNARK circuit elements in Rust.

Graduated: October 2025

Annemie Lukkes

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PERSONAL NOTE

I am interested in supply chain optimization and innovative food production systems. During my Bachelor's, I took a variety of courses related to plant and animal biology. In my Master's, I deepened my focus on subjects centered around supply chains, which I found very engaging. Additionally, I am passionate about using data analysis to explore how systems can be optimized. I am a motivated and stress-resistant individual, and I enjoy working collaboratively within a team.

------ LANGUAGES ------

Dutch ●●●●●
English ●●●●○

---------- SKILLS ----------

Python ●●●○○
Microsoft Office ●●●●○
Mosel ●●●○○
Project management ●●●●○

Drivers license (B)

-------- INTERESTS --------

Data analysis
Food supply chains
Sustainability

--------- HOBBIES ---------

Cooking
Indoor biking
Contact with family and friends

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Operations, Research and Logistics.
Thesis: *A simulation model which compares the effect of donating and discounting strategies in supermarkets and their impact on profit, waste and fill rate.*

BSc Biosystems Engineering (Agrotechnologie) 2020 – 2023
Wageningen University & Research, Wageningen
Thesis: *Designing a location-allocation multi-objective optimisation model to find the optimal locations of transshipment points for service providers by minimising costs and environmental aspects.*

WORK EXPERIENCE

Weekend demand planner 2024 – present
Plukon Food Group (Wezep, the Netherlands)
As a Demand Planner, I serve as the key link between Sales and Production Planning across various Dutch production sites. In this dynamic role, I am responsible for both the short- and long-term demand plans and ensuring the accurate monitoring of logistical performance towards customers.

Student assistant education team 2023 – present
Student-assistant Wageningen University (Wageningen, the Netherlands)
As a student assistant for the education team, I help update websites and the digital learning environment. I assist the team in brainstorming ideas and writing new texts.

Care assistant for the elderly 2018 – 2020
Zorggroup Noorderboog (Steenwijk, the Netherlands)
As a care assistant, I supported caregivers and nurses with providing care and performing household tasks.

OTHER EXPERIENCE

Committee member of study association "Heeren XVII" 2020 – 2024
Wageningen, the Netherlands
I have been a member of Heeren XVII since the first year. I have fulfilled various functions in the Almanac, gala and domestic excursion committee.

Graduated: January 2026

Coen Hakvoort

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PERSONAL NOTE

My interests are in the field of robotics and machine vision for various agricultural applications, which was also the focus of my master's thesis. To broaden my experience, I hope to do my internship in New Zealand. In addition to academic challenges, I enjoy working hands-on, which I currently do by working part-time at an auto repair shop and a construction company. Ideally, I would like to secure a position in the agricultural sector that combines academic expertise, international orientation, and practical work.

------ LANGUAGES ------

Dutch ●●●●●
English ●●●●○
German ●●○○○

---------- SKILLS ----------

Python ●●●●○
ROS ●●●○○
MATLAB ●●○○○
ArcGIS ●●●○○
QGIS ●●○○○

Drivers License (B)

-------- INTERESTS --------

Robotics
Engineering & Design
Hands-on engineering / problem solving
Machine & Deep Learning

--------- HOBBIES ---------

Tinkering
Mountainbiking
Traveling
Reading
Spending time with family and friends

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Farm Technology
Thesis: *Alignment of 3D Sensors for Enhanced Perception in Orchard Robotics. For this thesis, I evaluated calibration methods for a global LiDAR sensor and an end-effector-mounted RGB-D camera on a pruning robot for apple trees.*

BSc Biosystems Engineering (Agrotechnologie) 2020 – 2023
Wageningen University & Research, Wageningen
Orientation/specialisation: Geo-information Science and Remote Sensing
Thesis: *Detecting drought stress in grasses using hyperspectral remote sensing. For this thesis, I evaluated the hyperspectral reflectance and various vegetation indices for different grass breeds subjected to drought stress.*

WORK EXPERIENCE

Construction worker (part-time) 2025 – present
Bouwbedrijf Bloed (Ede, the Netherlands)
Working on various new construction and renovation projects.

Car mechanic (part-time) 2023 – present
Autovakmeester Bennekom (Bennekom, the Netherlands)
Performing maintenance and repairs on cars.

Forklift order picker (part-time) 2019 – 2024
Cotap (Hasselt, the Netherlands)
Order picking in a flooring wholesaler with a forklift

OTHER EXPERIENCE

Member of study association "C.S.F.R. Wageningen" 2020 – 2025
Wageningen, the Netherlands
Worked on various committees, such as organizing weekends or editing the association's newsletter.

Graduated: January 2026

Ischa van Kesteren

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PERSONAL NOTE

My personal interests are mainly in the automation of current production systems. I worked a lot with software design and the programming of robots, which was also the focus of my master thesis. I'm a dedicated and motivated worker with a strong social character. In the future I like to work in a field where I can express my interest in programming and robotics, but also enables me to get my hands dirty from time to time.

------ LANGUAGES ------

Dutch ●●●●●
English ●●●●●

---------- SKILLS ----------

Python ●●●●●
Mobile Robotics ●●●●○
Data engineer ●●●●○
People-oriented ●●●●●
Project management ●●●●○

Drivers license (B+BE)

-------- INTERESTS --------

Robot design & programming
Software engineering
Engineering
Bioprocess design

--------- HOBBIES ---------

Running
Raspberry pi programming
Vehicle upkeep
Furniture crafting
Cycling
Contact with family and friends

EDUCATION

MSc Biosystems Engineering 2023 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Robotics, both engineering and programming
Thesis: *Robot assembly and programming for the purpose of autonomous driving and plant recognition in green houses.*

BSc Biotechnology 2019 – 2023
Wageningen University & Research, Wageningen
Orientation/specialisation: Biorefinery and gene technology
Thesis: *Tuning the flow properties of hydrophobically modified paper for sensing applications.*

High School degree, Gymnasium 2013 – 2019
Stedelijk Gymnasium Leiden, Leiden
Orientation/specialisation: Biology, mathematics, chemistry, physics.

WORK EXPERIENCE

Hardware sales specialist 2022 – present
Gamma (Wageningen, the Netherlands)
Advising customers on hardware products and assisting with sales.

Program Representative 2021 – 2022
Wageningen University (Wageningen, the Netherlands)
Explaining the contents of the study program to prospective students.

Sales Assistant 2016 – 2018
Dirk (Leiden, the Netherlands)
Cooperate with colleagues to provide and the store with supplies.

OTHER EXPERIENCE

Board member of student association fraternity 2023 – 2024
SSR-W, Shinto (Wageningen, the Netherlands)
Organise activities and provide communication with members and the board.

Software engineering 2023 – 2023
Wageningen, the Netherlands
Working with a small student team to produce a demo application.

Graduated: February 2026

Ysbrand Galama

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PERSONAL NOTE

My interest in the agricultural sector stems from growing up in a family that has always lived on a dairy farm. From a young age, I have helped on the farm whenever possible and have always been curious about new techniques and methods to optimize operations. In my work, I am precise, eager to learn, and strive to bridge the gap between theory and practice. My ambition is to develop and innovate systems in agriculture.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
Frisian	●●●●○
German	●●○○○

---------- SKILLS ----------

Python	●●●●○
Microsoft office	●●●●○
Accounting	●●●○○
Project management	●●●○○
R-Studio	●●○○○
Problem-solving	●●●●○
Adaptability	●●●●○
Independence	●●●○○

Driver's Licence (B+BE+T)
Crop Protection Licence 1 & 2

-------- INTERESTS --------

Livestock farming
Arable farming
Biosystem Design
Problem-solving and analytical thinking

--------- HOBBIES ---------

Working at the family farm
Hiking

EDUCATION

MSc Biosystems Engineering 2024 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Farm technology, additional courses like Feed Formulation Science, and Future livestock systems.

BSc Biosystems Engineering (Agrotechnologie) 2020 – 2024
Wageningen University & Research, Wageningen
Orientation/specialisation: Farm technology, additional courses like Grassland Science, Agricultural Business Economics, and Milk in the Dairy Chain.
Thesis: *Evaluatie omtrent vergelijkbaarheid van de afdelingen binnen de milieustal op Dairy Campus.*

WORK EXPERIENCE

Freelancer | Agriculture 2023 – present
Ysbrand Agraryske Tsjinstferliening (Wageningen, the Netherlands)
Providing freelance services in the agricultural sector, including:
- Replacing livestock farmers during their vacations;
- Performing most of the tasks on arable and dairy farms;
- Assisting with garden landscaping and bank protection installation.

All-round employee | Arable farm 2017 – 2023
Landbouwbedrijf Haddders (Rutten, the Netherlands)
Year-round (weekends & holidays)
- Arable Farm specialized in seed potato cultivation;
- Gained hands-on experience in all seed potato farm operations;
- Working with GPS and ISOBUS technology.

Landscaping employee 2012 – 2016
Tuinservice Jan E.B. Haanstra (Koudum, the Netherlands)
Year-round (weekends & holidays)
- Garden landscaping, paving, and preparing sand beds.

All-round employee | Dairy farm 2008 – present
Galama VOF (Molkwerum, the Netherlands)
Family Dairy Farm Experience:
- Actively involved in all tasks on the family dairy farm from a young age;

Graduated: February 2026

Etienne Pors

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PERSONAL NOTE

I am a social, easy-going hard worker who likes a good challenge. Driven by a passion for agriculture, I started working on a farm at the age of 11. Since then I have developed my practical and theoretical knowledge on agricultural engineering at university as well as in the field.

------ LANGUAGES ------

Dutch ●●●●●
English ●●●●○
German ●●○○○

---------- SKILLS ----------

Python ●●●●○
Robotics (ROS2) ●●●○○
Project management ●●●●○
Mechanics ●●●○○
Fabrication ●●●○○

Adobe photoshop/
Premiere pro ●●○○○

Drivers Licence (AM+B+T)

-------- INTERESTS --------

Precision agriculture
Machine Learning
Bioprocess design
Data analysis

--------- HOBBIES ---------

Working on a dairy/pig farm
Working on cars
Repairing machinery
Barbecuing
Forage production(mainly hay)
Bartender on events
(Drive-in) DJ
Going out with family and friends

EDUCATION

MSc Biosystems Engineering 2024 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Machine/deep learning, robotics.
Thesis: *Determining the accuracy of grass yield in the field using implement mounted sensors. In collaboration with Kubota.*

BSc Biosystems Engineering (Agrotechnologie) 2019 – 2024
Wageningen University & Research, Wageningen
Orientation/specialisation: Animal nutrition, Grassland science, Soil plant relations, data driven supply chain management & Field robot design.
Thesis: *Radar-wave sensors and feasibility of detecting vital signs in calves.*
In collaboration with Nedap.

WORK EXPERIENCE

Freelance contractor 2023 – present
Etienne Pors Loonwerk & Grondverzet (Gerwen, the Netherlands
As a contractor I perform various tasks. Examples are driving sand dumpers, plowing, cultivating, seeding and manure application.

Waiter 2016 – 2019
Restaurant De 3 Gebroeders (Gerwen, Netherlands)
As a waiter, teamwork was essential and interaction with guests helped me to further improve my social and communication skills.

Farm operations assistant 2012 – present
Van Lankvelt-Raaijmakers VOF (Gerwen, Netherlands)
On Saturdays and other free time I work at a dairy/pig farm to perform various tasks ranging from field work, taking care of the animals to equipment maintenance and technical improvements.

OTHER EXPERIENCE

Sports- and Activity Committee study association “Heeren XVII” 2024 – present
Wageningen, the Netherlands
Organising various activities for students in their free time.

Promotional Committee of study association “Heeren XVII 2019 – 2022
Wageningen, the Netherlands
Creating merchandise for HeerenXVII such as clothing and a cooking book.

Graduated: February 2026

Thijmen Tukker

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PERSONAL NOTE

As an agrotechnologist, I am particularly fascinated by cutting-edge technologies and automation. During my studies, I worked extensively with technical design, robotics, physics, and operations research. My skills include analytical thinking, perseverance and goal-oriented work. I am proactive and enjoy taking on new challenges.

------ LANGUAGES ------

Dutch	●●●●●
English	●●●●○
German	●●○○○

---------- SKILLS ----------

Technical Design	●●●●●
Python	●●●●○
MATLAB	●●●●○
FICO Xpress	●●●○○
AutoDesk Inventor	●●●○○
Climate control	●●●●●
Project management	●●●●○

--------- LICENCES ---------

Inspector NEN 3140
Drivers Licence (B)
Basic Knowledge Bookkeeping
VCA-VOL (Safety license)

-------- INTERESTS --------

Precision Farming
Data analysis
Climate control
Renewable energy
Biosystems design
Optimization

--------- HOBBIES ---------

Mountain biking
Woodworking
Hiking
Reading
Social activities

EDUCATION

MSc Biosystems Engineering 2024 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: Farm Technology, Operations Research & Logistics
Thesis: *Design and evaluation of a PCM Heat Battery: simulating greenhouse climate with PCM heat storage to save energy and CO2.*
Extracurricular courses: Decision Science for Technology and Physical Transport Phenomena (Wetsus, Leeuwarden), covering balance equations, fluid dynamics and heat transfer.

BSc Biosystems Engineering (Agrotechnologie) 2020 – 2023
Wageningen University & Research, Wageningen
Minor: Concepts in Crop Production (Plant Physiology and System Modelling)
Extracurricular activity: Field Robot Event 2023 in Slovenia. As part of Wageningen's student team Robatic, we completed navigation, site-specific spraying and hazard recognition challenges and won second prize.
Extracurricular: Environmental Electrochemical Engineering, covering state-of-the-art electrochemical processes for water treatment, energy storage, and resource recovery.

WORK EXPERIENCE

Immersion cooling engineer (parttime) 2024 – present
iXora B.V. (Ede, the Netherlands)
iXora is an innovative start-up producing immersion cooling solutions for data centres. As an R&D team member, I focus mainly on optimising the convection of dielectric fluids, enhancing heat recovery and maximising system reliability.

All-round employee (parttime) 2017 – 2024
Aannemers- en hoveniersbedrijf J.W. 't Hoen B.V. (Alblasserdam)
Performed various tasks, including green maintenance, paving, sewer repairs, wood construction, and equipment management. These diverse activities have provided me with strong technical expertise and problem-solving skills.

OTHER EXPERIENCE

Committee member of C.S.F.R Wageningen 2021 – present
As a member of the Christian student association, I have been active in various committees, including the Diescie and Acquisitie.

Graduated: March 2026

Anne Corine Visser

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PERSONAL NOTE

My personal interests lie in the automation and sustainability of current production systems. I have worked with machine vision and the programming of robots, but now I focus on design in my master thesis. For my internship, I am currently looking at a policy institute to broaden my perspective. I am a creative and driven person with a passion for agriculture, and I enjoy working in diverse, multidisciplinary teams.

------ LANGUAGES ------

Dutch ●●●●●
English ●●●●○
German ●●●○○

---------- SKILLS ----------

Python ●●●○○
Autodesk CAD ●●●●○
Adobe Photoshop ●●●●○
MATLAB ●●●○○
SQL and Power BI ●●○○○
Accounting ●●●○○
Project management ●●●●○

Drivers Licence (B+T)

-------- INTERESTS --------

Machine design
Agricultural policy
Greenhouse modelling

--------- HOBBIES ---------

Triathlon
Dancing
Working on old cars and tractors
Contact with family and friends

EDUCATION

MSc Biosystems Engineering 2024 – present
Wageningen University & Research, Wageningen
Orientation/specialisation: arable farming, design, control engineering, greenhouse modelling, agricultural policy, economic modelling
Thesis: T*owards Sustainable Pest Control: Designing and Implementing a Suction-Based Pest Control System for Cabbage Whitefly in Dutch Brussels Sprout Cultivation*. This thesis combines a stakeholder analysis, design, stress testing, and a cost-effectiveness analysis.

BSc Biosystems Engineering (Agrotechnologie) 2020 – 2024
Wageningen University & Research, Wageningen
Orientation/Specialization: I was part of a student team working on an autonomous robot to participate in the international Field Robot event. I was responsible for the vision task, where I used YOLOv8. I learned a lot about working together as a big group on a complex and creative assignment.

WORK EXPERIENCE

Student assistant of the study program director 2024 – present
Wageningen University (Wageningen, the Netherlands
I helped in planning a new versatile technical space at the campus for courses, student teams and PhDs. I also organised the attendance of the University at the Techbeach event.

Co-owner v.o.f. Drewes-Visser Design 2020 – present
Design company (Schellinkhout, the Netherlands)
I learned a lot about market analysis, policy for businesses, marketing, and working with different software programs. Alongside, it boosts my creativity to make new designs and prototypes.

OTHER EXPERIENCE

Program committee member 2023 – present
Wageningen University (Wageningen, the Netherlands)
I represent the students in meetings about changes in the curriculum and general academic affairs.

Member of 3 committees at the study association Heeren XVII 2020 – present
Wageningen, the Netherlands

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 academic 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

MATHEMATICS / IT (15 credits)
Statistics
Mathematics

ENGINEERING (15 credits)
Engineering problem solving
Process engineering
CAD and mechanics

PHYSICS (6 credits)
Introductory physics

CHEMISTRY (6 credits)
Physical chemistry
Organic chemistry

ECONOMY AND SOCIETY (12 credits)
Sustainable agricultural transitions
Introduction to business economics, management 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)
Physical transport phenomena
Modelling dynamic systems
Control engineering
Sensing and perception
Building physics and climate engineering

DESIGN (6 credits)
Engineering design

MATHEMATICS / IT (18 credits)
Decision science
Programming in Python
Data analysis for biosystems engineering

RESEARCH SKILLS (6 credits)
Research methods biosystems engineering

BIOLOGY (12 credits, choice out of:)
Plant sciences
Animal sciences
Integrated pest management
Microbiology and biochemistry
Soil-plant relations

BACHELOR THESIS (24 credits)
Bachelor thesis agrotechnology

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: Agricultural Biosystems Engineering, 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 'Agricultural Business Economics' or choose free elective courses in this field. Another relevant often-chosen minor is 'Supply Chain Management'.

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.

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)
- Agricultural Biosystems Engineering (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 information on 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
- Giving one or more oral presentations and writing a scientific report.
- In most cases, following chair group colloquia.
- Depending on the subject the different aspects can be of more or less importance.