

Ewout Voorrips

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2400 København, Denmark



PROFESSIONAL PROFILE

I am a Master's student in Engineering Physics with a passion for advanced technologies. I am fascinated by complex engineering problems, mainly in the field of energy physics but also outside. As a student I have further specialized through internships, projects and electives.

I am naturally curious and always looking for an interesting and innovative project I can sink my teeth into.

CORE COMPETENCIES

- Scientific Experimentation
- Numerical Modelling & Simulation
- Statistical Analysis & Visualization

TECHNICAL SKILLS

- Programming: Python, JavaScript, Linux, MATLAB, HTML,
- Scientific Computing: Pytorch, SQL
- Technical Software: LabView, LTspice, Inkscape
- Microelectronics: Raspberry Pi, Arduino, 3D Printing

LANGUAGES

Dutch	Native
English	Fluent (C2)
German	Intermediate (B2)
Danish	Intermediate (B1)

PERSONAL PROFILE

I am a cheerful person, who is interested in other cultures and likes going on adventures.

Outside of physics, my main interest is sports. I like many sports, such as running, football, biking and swimming. My claim to fame is that I participated in the Dutch Bridge Championships in my youth. Sadly, I never managed to win gold.

EDUCATION

M.Sc. in Engineering Physics// Technical University of Denmark **Winter 2025 – Present**

- Specialization: Energy and Materials Physics
- Relevant courses: Innovation for Physicists, Innovation, Experimental Plasma Physics, Experimental Surface Physics

Exchange Student // University of Waterloo, Canada **Fall 2023** Among Canada's leading universities in engineering.

BSc. in Applied Physics // Delft University of Technology 2021 – 2024

- Bachelor thesis: Studying β -Tantalum for Use in Metal Hydride-Based Optical Hydrogen Sensors at Sub-Zero Temperatures. Published as a paper in [The Journal of Physical Chemistry C](#).
- Relevant courses: Electronic Instrumentation, Design Engineering for Physicists, Optics, Introduction to Experimentation, Thermal Physics, Physical Transport Phenomena

RELEVANT EXPERIENCE

Summer Intern // CERN
Jun. 2025 – Aug 2025
Contributed to the development of a novel beam monitoring instrument within CERN's Beam Instrumentation Group. Designed and implemented a Python-based analysis framework for instrument data, validated results through simulations, and presented findings to guide project decisions. Made thorough documentation to ensure successful continuation of the project.

Treasurer // Tutor Delft
Jul 2022 – Jul 2023
Oversaw financial management, including budget tracking, reporting, and ensuring fiscal responsibility for my futsal association.

Coordinated events, training, and match schedules in collaboration with partner associations. Led board meetings, contributed to strategic planning, and implemented a new merchandise distribution tool to improve member engagement.

Economics Tutor// SSL Leiden
Jan 2023-Jul 2023
Helped high school students prepare for their Economics final exam. Prepared lessons and gave mini-lectures on various subjects within the field of economics.

Tutor // KSG Apeldoorn
Jan 2017- May 2020

Gave tutoring sessions to fellow students at my high school in English, Mathematics, Advanced Mathematics, Physics & Economics. Guided home-work sessions in small classes and giving mini-lectures.

Football Coach // Robur et Velocitas
2015-2020

Led coaching sessions and managed matches at my football club for boys aged 9-13 years.

PROFESSIONAL DEVELOPMENT

Conflux Mentorship

Monthly meetings with a mentor from industry who helps me in my career.