

Lars VAN DARTEL

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As a double bachelor student in Computer Science & Engineering and Applied Mathematics I have developed skills in advanced programming and logical thinking. I enjoy putting these skills to use in creating innovative technologies, with a particular interest in the fields of computer networks, embedded systems and robotics. Working as Chief Electronics & Software in student team TU/ecomotive has allowed me to develop my skills in a practical setting, as well as my communication and organisation skills.

SKILLS

Programming	C/C++, Rust, Python, Java, JavaScript, TypeScript, HTML, CSS, SQL, bash
Tools	git, Docker, Vim, KiCad, \LaTeX , Microsoft Excel
Operating systems	Windows, Arch Linux, Debian, Ubuntu, Nixos
CAD	Fusion 360, FreeCAD, OnShape, 3D printing

EDUCATION

Present	Double bachelor Computer Science & Engineering and Applied Mathematics EINDHOVEN UNIVERSITY OF TECHNOLOGY
Sep 2021	> Expected graduation date: June 2025
Jan 2025	Minor in Mathematics Education EINDHOVEN SCHOOL OF EDUCATION
Sep 2023	> Grade-two teaching qualification for secondary education > Two teaching internships at secondary schools
Jul 2021	VWO Gymnasium GYNASIUM BEEKVLIET
Aug 2015	

WORK EXPERIENCE

Present	Guest teacher, GYMNASIUM BEEKVLIET > CAD courses in OnShape > Programming courses in Python > Programming Micro:Bit robots
Jan 2025	CAD Simple programming 3D printing Communication Presenting
Present	Sailing Coach, DUTCH RS FEVA CLASS ASSOCIATION > World championship coaching (2023, 2024, 2025)
Jan 2023	Sports Planning Communication
Present	Sailing Trainer, WATERSPORTVERENIGING WOLPHAARTSDIJK > Sailing training for children aged 10 to 18
Jan 2020	Sports Planning Communication
Jul 2021	Summer job, VANDERLANDE > PCB design in KiCad & Assembly > Robot programming in ROS
Jun 2021	PCB design Linux ROS

LANGUAGES

- > Dutch: Native
- > English: C2 (native)
Certificate of Proficiency in English (CPE) – ESOL
Cambridge

STRENGTHS

- > Quick learner
- > Motivated
- > Independent

EXTRACURRICULAR ACTIVITIES

TU/ECOMOTIVE

2022 - 2023

 <https://www.tuecomotive.nl>

TU/ecomotive is a student team from the Eindhoven University of Technology that designs and builds concept cars around a sustainability theme. As Chief Electronics & Software I helped design most of the electronic systems in the car. My main responsibilities were the drivetrain, communication network (CAN) and the lighting system.

Embedded Systems CAN PCB design CAD Teamwork Leadership

ADVENT OF CODE

2022 - PRESENT

 github.com/LarsvanDartel/aoc-rust  <https://adventofcode.com/>

Advent of Code is an annual coding competition with daily challenges in December. I participate in the competition to improve my problem solving skills and learn new algorithms. For the last two years I won the competition within the Study association GEWIS.

Rust Python Mathematica Algorithms Competitive programming

SYMBOLIC MANIPULATION

2023 - 2024

 github.com/LarsvanDartel/symb-rs

As part of a team, I wrote a computer algebra system in Rust which uses recursive descent parsing to parse mathematical expressions. The system can simplify, differentiate and integrate expressions and show steps of the computation.

Rust Mathematics Computer Algebra