



# Léon Master Student Embedded Systems van de Beek BSc



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## EDUCATION

### Master Embedded Systems

University of Technology Eindhoven | September 2020 – Present

Stream: Embedded Networks. Graduating end of October 2022.

Graduation project: "Accuracy and Precision of Ultrawideband Localisation" at IMEC Netherlands

### Bachelor Computer Science and Engineering (GPA 7.3/10)

University of Technology Eindhoven | September 2016 – November 2019

Bachelor End Project: "StripeFarmer" (8.0/10)

Elective packages: Security, App development

### Pre-University ("Atheneum") NT profile + Biology (GPA 7.5/10)

CSG Het Streek, Ede, The Netherlands | 2010 – 2016

### Cambridge Proficiency in English | June 2015

CEFR Level: C2. Ref. Nr.: 156NL0058299

## INTERESTS

- Working on personal projects such as web apps and my own home automation system using Raspberry Pi and Arduinos.
- Developing my soft-skills in multiple committees and boards at my student association.
- Travelling to other countries and continents to explore their surroundings and cultures.

## PROGRAMMING

JavaScript	●●●●●●●●
Reactjs	●●●●●●●●
Docker	●●●●●●●●
Arduino/ESP	●●●●●●●●
Linux	●●●●●●●●
C++ / C	●●●●●●●●
Python	●●●●●●●●
Matlab	●●●●●●●●
HTML/CSS	●●●●●●●●



### IoT device management internship (32 hours/week)

Signify N.V.

September 2021 – January 2022

During my 5 month internship at Signify I worked on building our own custom Linux distribution for the Philips Hue team. We did this using the Yocto project, which allows for easy addition of BSP layers and other meta-layers like virtualization and security. During this internship I gained a lot of experience with using Yocto and its buildsystem Bitbake, as well as Linux and kernel development. I expanded my knowledge in working with Docker containers as well, diving deep into OverlayFS and arranging resource limitations.

### Software Engineer (Designer) (40 hours/week)

Prodrive Technologies

March 2020 – August 2021

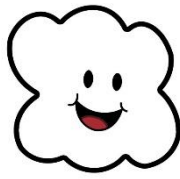
After graduating and travelling Asia for almost 4 months, returning home in the middle of the Covid-19 pandemic, I was grateful to find a job as a software engineer at Prodrive. I mainly worked on maintaining and building new static and dynamic C++ libraries that we use for our Automatic Electronic Test (AET) systems. This also involved a greater detail in documentation, version control and CI/CD that I had ever experienced before. When my Master started in September of 2020, after working full-time for 5 months, I converted my contract with Prodrive to part-time 12 hours a week.



## LANGUAGES

Dutch	●●●●●●●
English	●●●●●●●
French	●●●●●●●
German	●●●●●●●

## WORK EXPERIENCE (Contd.)



### Software Engineering Project (SEP) (30 hours/week)

*Eindhoven University of Technology*

*September 2019 – November 2019*

This project was my first experience with Software development on a large scale with a group of 9 persons. We worked on a system for collecting and presenting data collected from sensors in farm fields and online API's. We used ReactJS for the front-end and a MYSQL database.

## HOBBY'S

- Sailing
- DJ'ing
- Travelling
- Golf
- Hockey
- Tinkering with electronics



### Member of the Central Introduction Committee (CIC) (8 hours/week)

*Eindhoven University of Technology*

*January 2019 – December 2019*

As a member of the Central Introduction Committee (CIC) I have been responsible for the organization of the introduction week of 2019 of the Eindhoven University of Technology with over 2500 participants. My main responsibilities were permits, stage design/management and artist hospitality. Our busiest evening saw over 4000 unique visitors.

## Personal projects

- VM server with own proxy
- Home Automation system
- Hosting storage for a decentralized storage project
- Multiple node projects in the crypto space
- Hosting game servers for friends



### Administrative assistant (6 hours/week)

*Dutch Institute For Fundamental Energy Research*

*April 2017 – June 2018*

As the administrative assistant of Prof. Jaime Gómez Rivas and the Photonics for Energy group at DIFFER I was responsible for a variety of tasks. These ranged from creating the new website for the group to organizing visits of international visitors and ordering of new equipment for the laboratories.

### Section leader (12 hours/week)

*Jumbo Supermarkt Bellestein*

*November 2015 – May 2017*

After starting out as a stock clerk 4 years earlier I started taking over tasks and responsibilities of my own section leader and in November of 2015 I was promoted to section leader myself. My responsibilities included communicating with clients and suppliers, making work schedules while at the same time keeping the safety of the customers and my fellow employees into account.



## GOALS

Work in a company that inspires me and helps me contribute to society, surrounded by amazing colleagues.

Explore my boundaries and broaden my horizons.

Sailing the world one day and visiting as many places as possible, especially places not a lot of other people visit.

## EXTRA CURRICULAR



### Liberation 040

In September of 2018 the first ever edition of Liberation 040 festival was held. Liberation 040 is a student initiative to remind young people that freedom is not self-evident and that it should be cherished. My role in the organization was to provide all the necessary facilities for the festival terrain, obtaining a permit in collaboration with the municipality of Eindhoven and show production for the day of the event.