

Carlos van Rooijen

SOFTWARE ENGINEER · EMBEDDED SYSTEMS

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Education

HU (University of Applied Sciences Utrecht)

Utrecht, The Netherlands

B.S. IN INFORMATION AND COMMUNICATION TECHNOLOGY

Sep. 2014 - Sep. 2022

- Specialized in Applied Computer Science.
- Graduated with six excellence stars

Skills

Programming Languages C/C++ (Middle), Python (Middle), Cmake (Middle), Beckhoff plc (Middle), Rust (Junior), LaTeX

Languages Dutch (native), English (Full Professional Proficiency), German (Elementary Proficiency)

Hardware platforms Experience with the microcontroller platforms of STM, Nordic, Atmel

Technical skills Soldering (through-hole, SMD, hot-air), PCB design (Middle), network architecture, linux

Experience

C-Boost B.V.

Eindhoven, The Netherlands

EMBEDDED SOFTWARE ENGINEER / PROJECT MANAGER

November. 2022 - PRESENT

- Responsible for multiple embedded and robotics projects both as lead engineer as well as project manager.
- Worked on projects in the following sectors: rail, automotive, industry, agriculture
- Was responsible for the first embedded electronic project build by the company. Worked on software, pcb, certification and manufacturing.

BrewPi

Eindhoven, The Netherlands

GRADUATE INTERN EMBEDDED SOFTWARE DEVELOPER

March. 2021 - Sep. 2022

- Developed a dynamic display interface for a beer brewing controller.
- The dynamic interface was achieved by implementing a tilling system on a small embedded system.

Auto-Intern G.M.B.H.

Bochum, Germany

INTERN EMBEDDED SOFTWARE DEVELOPER

Sep. 2016 - Jun. 2017

- Designed a compile time generated state machine framework in C++.

Carlos van Rooijen Engineering

Maarsen, The Netherlands

OWNER

May. 2019 - November. 2022

- Founded a company as a consultant for embedded programming.

University of Applied Sciences Utrecht

Utrecht, The Netherlands

TEACHERS ASSISTANT

Nov. 2015 - Nov. 2018

- Aided teachers with the courses by helping students during classes.
- Examining and grading practical work of students.
- Gave tutoring classes for students.
- Gave a few theoretical classes under the guidance of a teacher.

Extracurricular Activity

Meeting CPP conference

Berlin, Germany

STAFF

Nov. 2018 - Nov 2022

- Attends and helps organize the conference.
- Helps with the recording of talks and introduction of speakers.
- Moderates questions after talks.

Timmerdorp (A local event for 400 children)

Maarsse, The Netherlands

ORGANIZER

Aug. 2014 - PRESENT

- Organizer of an event for 400 children. During this event, children build wooden houses.
- Responsible for the IT infrastructure in the event area such as cellphone and wifi networks.
- Acting as privacy officer.
- Responsible for the general administration of the event.
- Created the website for the event.
- Created a distributed registration system to handle the load of registration day.

More information about the event can be found at: dorp.timmerdorpmaarsse.nl

Scouting Jan Campert

Maarsse, The Netherlands

VOLUNTEER

Jun. 2013 - PRESENT

- Acted as a board member for four years.
- Organized and leads meetups as a scouting leader.
- Responsible for maintenance of buildings and equipment.
- Also active in the sailing groups as a leader.
- Introduced a new organizational structure to the organization.

HAM radio

The Netherlands

NOVICE LICENSED RADIO AMATEUR

Oct. 2018 - PRESENT

- Has a license as a novice radio amateur in The Netherlands
- Participated as a volunteer in the scouting radio event: JOTI/JOTA

Indicium

Utrecht, The Netherlands

ORGANIZER CONFERENCE TRIPS

Sep. 2017 - 2020

- Founded the trip committee for the study association Indicium.
- Organized several trips to conferences for students at the HU Utrecht.

Study accreditation committee HBO-ICT University of Applied Sciences Utrecht

Utrecht, The Netherlands

STUDENT PANEL MEMBER

2021

- Participated in the accreditation process by providing my experience as a student.
- Participated in discussions with partner companies and teachers about the curriculum

Projects

My first devboard

Devboard

CREATOR

2019

- Created a devboard for first-year students to get familiar with soldering and hardware interfacing using C++.
- Gained experience with PCB manufacturing.
- Project can be found at: <https://github.com/CvRXX/myFirstDevBoard>

Termite

Devboard

CREATOR

2021

- Created an open source hardware devboard.
- The devboard is aimed at embedded library developers for the creation of drivers.
- Gained experience with production using a pick and place service.
- Gained experience with battery charging circuits.
- Was graded a 9.

Project can be found at: <https://github.com/CvRXX/termite>

Knotlang

Programming language

CREATOR

2020

- Created a programming language using knots in a rope as representation.
- The language is based on the brainf**k language.
- Wrote the interpreter for running code written in knots.
- Project can be found at: <https://github.com/CvRXX/KnotLang>