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	C/C++ (Middle), Python (Junior), Cmake (Middle), 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 (beginner), network architecture, linux

Experience

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.
- Was graded an 8.8

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++.
- Was graded an 8.4

Carlos van Rooijen Engineering *Maarsen, The Netherlands*
OWNER *May. 2019 - present*
- Founded a company as a consultant for embedded programming.
- Provided consultancy to various companies.

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 - PRESENT

- 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)
Maarssen, 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.timmerdorpmaarssen.nl

Scouting Jan Campert
Maarssen, 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