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 (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.
- 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 - November. 2022*
- 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 - 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)
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