

Daniel Duclos-Cavalcanti

COMPUTER ENGINEER

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Education

TU München

MASTERS OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING

- **Currently Enrolled**

Munich, Germany

Oct 2020 - PRESENT

TU München

BACHELOR OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING

- **GPA**, 3.1 in American Standards
- **GPA**, 2.2 in German Standards
- **Bachelor Thesis**, 1.3 in German Standards — Netlist Error Modeling

Munich, Germany

Feb 2017 - 2020 Sept

PUC-RIO

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

- **144 of 238**, Credits Completed
- **Top 5 Percent** of the Department, GPA: 7.5/10
- **Hochschule Furtwangen University**, Furtwangen, Germany — *Year Abroad 2017*

RJ, Brazil

Jan 2013 - 2017 Jan

Skills and Languages

Languages English (**Native**), German (**Fluent**), Portuguese(**Native**), Spanish
Code C, C++, Python, Bash, POSIX Shell, VHDL, Tcl Scripting
Tools Docker, GNU Make, CMake, Git, Linux, Jenkins CI, Travis CI, gTest, PyTest
OSes FreeRTOS, Contiki OS

Experience

Molabo GmbH

WORKING STUDENT - EMBEDDED SOFTWARE ENGINEER

- Development of VHDL Modules for FPGAs
- Development of Embedded C-Code for Microcontrollers
- Supervision and development of:
 - the team's CI Pipeline using Jenkins.
 - build Systems and Toolchains written in CMake and Make.
 - unit Tests with gTest.
 - containerized test and build systems through Dockers.

Munich, Germany

Oct 2021 - PRESENT

Molabo GmbH

EMBEDDED SOFTWARE ENGINEER

- Summer Internship at Molabo GMBH.
- I was responsible for unit-tests with Google Test, generating code coverage, and toolchain development with CMake of their Embedded Software.

Munich, Germany

Aug 2021 - Sept 2021

TU München

TUTOR - EMBEDDED SYSTEMS PROGRAMMING LAB

- Tutor for the ESPL Lab course within the Electrical Engineering Bachelor at TUM
- Assisted students during their course work and their final project, which consisted of writing FreeRTOS applications in C.

Munich, Germany

April 2021 - Aug 2021

TU München

RESEARCH INTERNSHIP

- Research Intern at the Real-Time Computer Systems Department at TUM.
- Worked with Google's Edge Coral TPU, where I benchmarked its performance on the inference of several Machine Learning Models.
- Automated the training, freezing, inference and Hardware deployment of several ML Models.

Munich, Germany

Oct. 2020 - Feb 2021

TU München

INTERNSHIP

- Research Intern at the Communication Networks Department at TUM.
- I was responsible for testing, debugging and analyzing the behavior of a software switch within a Software-Defined Network environment.

Munich, Germany

Aug. 2019 - Dec. 2019

Projects and Certificates

FreeRTOS Space Invaders

TU München

- Implemented a replica of Space Invaders as a FreeRTOS application.
- The goal was to emulate how multi-threaded applications work on real-time embedded devices..
- The project was written in C.

UCSD: Data Structures Fundamentals

Edx

- Completed the Data Structure Fundamentals course from UCSD's CS MicroMasters program on Edx.

UT Austin: Embedded Systems - Shape the World: Microcontroller I/O

Edx

- Completed the Embedded Systems Introductory Course from UT Austin available on Edx.