Daniel Duclos-Cavalcanti

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Education

TU München Munich, Germany

MASTERS OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING

· Currently Enrolled

TU München Munich, Germany

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

PUC-RIO RJ, Brazil

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

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, Ansible, Jenkins CI, Travis CI, gTest, PyTest

OSes FreeRTOS, Contiki OS

Experience

Molabo Gmbh Munich, Germany

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.

Molabo Gmbh Munich, Germany

EMBEDDED SOFTWARE ENGINEER

Aug 2021 - Sept 2021

Oct 2021 - PRESENT

Oct 2020 - PRESENT

Feb 2017 - 2020 Sept

Jan 2013 - 2017 Jan

- 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 Soft-

TU München Munich, Germany

TUTOR - EMBEDDED SYSTEMS PROGRAMMING LAB

April 2021 - Aug 2021

Aug. 2019 - Dec. 2019

- 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.

TU München Munich, Germany

RESEARCH INTERNSHIP

INTERNSHIP

Oct. 2020 - Feb 2021

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

TU München Munich, Germany

• 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.

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.