LORENZO PATTARO ZONTA

Undergraduate BSc

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Iyreplus

in lorenzo-pattaro-zonta

Italy

WORK EXPERIENCE

Student Tutor

</>/> Rust

Trento, University of Trento

iii Sept 2023 - Feb 2024

- Development of weekly exercise sheets for the students on the topics covered during the lessons, along with the other tutors.
- Collaboration with professor in exam preparation by writing exercises and tests for the midterms and finals.
- Providing weekly tutoring session to help students understand and apply advanced programming concepts in Rust.

Software/MCU Engineer

Trento, E-agle Trento Racing Team

</>/> C C++ Make Git

Nov 2023 - Present

- Embedded systems programming: Developed and maintained code for the Formula SAE racing team's **steering wheel firmware**, based on a microcontroller, written in C, and utilizing CMake for compilation.
- GUI customization: Use of LVGL C library to create and customize the graphical appearance of the steering wheel's interface before testing the code on both personal computer and then on microcontroller.
- Team collaboration and contribution: Actively participated in regular team meetings, contributing new ideas and insights to improve the racing team's overall performance.

EDUCATION

Bachelor's degree in Computer, Communications and Electronic engineering

University of Trento

Sept 2021 - Sept 2024

Main courses

 Relevant Coursework included Algorithm and Data Structures, Advanced Programming (Rust-Based course with W3C-like project groups), Embedded Software of the IoT, Software Engineering and Operating Systems

ACHIEVEMENTS

Semifinals of First Lego League

Rovereto, Italy

i Feb 2020

Won the semifinals of the First Lego League Italy for the scientific project.

- Collaborated with a team to design an innovative solution for waste management, emphasizing teamwork and diverse skill integration.
- · Conducted extensive online research and consulted with industry experts to ensure a robust understanding of the project's feasibility.
- Wrote a detailed study on the practical implementation of the proposed waste separation solution, emphasizing the development of a comprehensive proposal and feasibility studies.

EXPERIENCES

Summer School of Science

Požega, Croatia

- **i** Jul 2019 Aug 2019
- Participated in the Summer School of Science, collaborating with an international team of students to learn mathematical and computer science concepts for developing a self-driving car model.
- Applied Mathematics to AI: Explored tensors and neural network models, implementing with Python and Jupyter Notebook.
- Built a Raspberry Pi-powered autonomous car, processing images for self-driving.

SIDE PROJECTS

BoSE Trader

Rust Application

</>/> Rust Git

GasGooo Web App

Full stack web application

{/> [Javascript] [MongoDB] [Postman] [Git] [NPM] [REST API

GasGooo/GasGooo

Telemetry Recruiting Project

Multithreaded finite state machine.

C++ Make C Makefile CMake pthreads

Q Lyreplus/recruiting-sw-telemetry-project-2