



Gaetano Pio Pispisa

SOFTWARE ENGINEER

Messina, Italy

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Experience

STMicroelectronics

Catania, Italy

Internship

Feb. 2024 - Oct. 2024

- Worked on differential robots
- Programmed the Robot Firmware in C using FreeRTOS, to interact with motors and IMU
- Implemented micro-ROS in STM boards
- Worked on Kalman Filter for the odometry
- Managed a ROS2 package to visualize, debug and interact with the robot (C++/Python)
- Worked on Navigation in 2D environment
- Developed a simulator (digital twin) for testing.
- Making performances tests

Zancl E-Drive

Messina, Italy

Lead Developer & IT Manager

Oct. 2021 - Present

- Managed a university team that will race in Formula SAE, a competition of self-driving cars (more than 50 members)
- Led the design and development of all the software stack of the autonomous car (Perception, SLAM, Planning, Control) using ROS (Robotic Operating System) and python/C++
- Defined the ROS messages and nodes architecture
- Developed a simulator using Gazebo to test the code
- Making performances tests
- Making Software optimization and bug fixes
- Managing the team and the work for all members
- Dealt partnerships with companies (Nvidia, Siemens, Ansys, etc...)

University of Messina

Messina, Italy

Academic tutor

March 2023 - Present

- Helping student to deal with C and MATLAB projects
- Explained data structures and algorithms

Webgenesys S.p.A.

Messina, Italy

System Administrator/System security

Oct. 2022 - Dec. 2022

- Worked with firewall (Fortinet, Watchguard, Pfsense)
- Configured servers with ESXi and with an appropriate redundancy (RAID) to improve the reliability of the system
- Provided assistance to solve user's problems and improving their services (making VPN, Site-to-Site) to provide security and affidability
- Assistance on user's workstations in Reggio's Hospital

Skills

Python OOP, numpy, pandas, tensorflow, OpenCV, ROS, ROS2, matplotlib

C/C++ Programming on microcontrollers (Arduino, ST), ROS, ROS2, micro-ROS

Databases MySQL

DevOps Docker, lxd, Git, Linux distros (Ubuntu, Debian, Raspbian, CentOS)

Front-end HTML, CSS, JavaScript

Other Bash scripting, IoT, MATLAB, Simulink, Assembly, LaTeX, multi thread programming, AI, Cloud

Soft skills Project management, leadership, self-improvement, problem solving, fast learning

Languages Italian(main language), English(C1)

Education

University of Messina

MSc in Engineering and Computer Science

- Weighted Average Exam Marks 29.5/30

Italy

Oct. 2022 - Present

University of Messina

BSc in Computer and Electronic Engineering

- Graduated with honors (110/110 cum laude)
- Weighted Average Exam Marks 27.22/30

Italy

Sep. 2019 - Oct. 2022

Extracurricular

Cambridge English Certification

English Certification LEVEL B1

- Passed with merit

Messina, Italy

Oct. 2022

Cisco certification

CCNA Routing and Switching: Introduction to Networks

Messina, Italy

Jul. 2019

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