

Giacomo Dario

Robotics Engineer

☎ +39 349 0815493

🏠 Vällimerenkatu 5C 146, Helsinki

🌐 giacomodario.com

✉ giacomodario.me@gmail.com

🌐 www.linkedin.com/in/gdrobotics/



PROFILE

I am a young engineer interested in innovative technology and business models, especially those related to electronics and robotics, and passionate about teamwork.

SKILLS

- Programming languages: C++, Python
- Machine Learning
- ROS
- IT: Git, Docker, MongoDB
- Electronic systems and PCB design
- Communication protocols: CAN, SPI, I2C
- Embedded software development: SAMD Microchip, Raspberry, Nvidia Jetson platforms, Arduino
- 3D CAD design and 3D printing
- Problem solver
- Team player, energetic leader
- Independent and self-motivated

LANGUAGE SKILLS

- Italian (Native)
- English (Proficient)
- French (Basic)

MY PROJECTS

Visit my website to know more about me and my projects!

giacomodario.com



EXPERIENCE

The following experiences are explained more in detail in my website.

Master's Thesis Worker at Aalto University

MARCH 2022 - PRESENT

Development of deep-learning algorithms for localization based on inertial sensors and computer vision, using an innovative end-to-end method for sensors fusion of autonomous vehicles.

Research Assistant at Aalto University

APRIL 2021 - SEPTEMBER 2021

Development of a ROS-based AMR for CERN maintenance and delivery:

- setup robot's ROS stack in Python and C++ in a Docker container
- implement ROS drivers for IMU and wheel odometry
- implement and tune sensor fusion (EFK) for localization
- implement and tune PID controllers for motor drivers (on Arduino)
- implement waypoint navigation and obstacle avoidance
- build the electronics to drive the sensors (e.g. board for radar sensors)

Assembly Intern at C.M.A. Astoria

FEBRUARY 2016 - JULY 2016

Assembly Intern in the production of professional coffee machines. This experience made me develop my interest for engineering, when, after highschool, I was not sure about what career to pursue.

EDUCATION

EIT Digital Master School

SEPTEMBER 2020 - PRESENT

Double degree program in Autonomous Systems (*Sensing, Communicating and Processing Big Data for Autonomous Systems*):

- Robotics, Automation and AI at Aalto University (Finland)
- IoT at Eurecom (France)

Università degli Studi di Trento

SEPTEMBER 2016 - MARCH 2020

Bachelor's in Mechatronics Engineering

*Neural interface: features and production process of microneedles
Microneedles Electrodes Array (MEA)*