

CONTACTS



Turin, Italy



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PROFESSIONAL PROFILE

Motivated and detail-oriented undergraduate in Computer Engineering with a strong foundation in programming and hands-on experience in firmware and software developing. Passionate about leveraging technology to solve real-world problems and eager to contribute to innovative projects. Proven ability to work both independently and collaboratively, with excellent analytical and problem-solving skills. Currently seeking opportunities to apply technical knowledge and gain industry experience.

HARD SKILLS

Programming languages

- C/C++
- Python
- MATLAB
- Javascript
- HTML/CSS
- MIPS Assembly
- SQL (DBMS)

Operating systems

- Windows
- Linux

Office package

- Microsoft word
- Microsoft Excel
- Microsoft Powerpoint

Giulia Arwen Sabina Scuderi



WORK AND PROFESSIONAL EXPERIENCE

PoliTOcean

2023 - PRESENT

Firmware and Software Developer

- Collaborated within a multidisciplinary team of engineers to design and develop a Remotely Operated Vehicle (ROV) for international competitions.
- Programmed and integrated an Inertial Measurement Unit (IMU) sensor (gyroscope and accelerometer) in C/C++, enabling precise underwater stabilization of the vehicle.
- Partnered with mechatronic engineers to implement a robust control system on a Raspberry Pi
 4, derived from a Simulink model in MATLAB, ensuring reliable system performance.
- Enhanced the vehicle's Graphic User Interface (GUI) by introducing new features to optimize
 user experience and streamline monitoring via multiple camera streams. Developed skills in
 HTML and CSS (frontend) and JavaScript and Python (backend).
- Served as Chief Safety Officer (CSO) and firmware representative during the MATE ROV World Championship in the United States.
- Designed a competition strategy, achieving record-breaking performance and setting a new benchmark for the past seven years.
- Represented the organization at scientific conventions, fostering connections with industry partners, promoting its mission, and gaining insights to drive innovation.



EDUCATION

2022 - PRESENT

Bachelor degree in Computer EngineeringPolitecnico di Torino

- Joined the Firmware & Software division of the PoliTOcean student team, contributing to innovative projects in underwater robotics.
- Selected for the prestigious Samsung Innovation Campus, completing an intensive program focused on Machine Learning, IoT and Cybersecurity. The program included hands-on learning, a collaborative group project, and culminated in a final pitch presentation at Samsung's headquarters in Milan.

Scientific diploma

2017 - 2022

Liceo A. Avogadro Biella Score: 100/100



LANGUAGES

- Italian (C2 Native language)
- English (C2 Cambridge CPE)
- **French** (Intermediate proficiency)