FLAVIO-ARNAUD GHERI

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Profile

A reliable and curious MSc Robotics engineer with an aptitude for **coordinating teams** and **implementing creative solutions**. I excel in collaborative and fast-paced atmospheres that require me to problem-solve on a daily basis. I speak four languages and have experienced various facets of engineering fields. Looking for a **Graduate scheme** or full-time employment post-graduation.

Education

MSc Robotics, **TU DELFT**   Sept 2023 - Aug 2025
                                                                    Delft, NL

- **Grade:** TBD (currently 7.5)
- **Subjects:** **Planning and Decision Making**, Dynamics & Control, Machine Learning, **Deep Learning**, **Machine-Perception**, OOP, HRI, Intelligent Control Systems, **Release Engineering** for ML, MDP

BSc Mechanical Engineering, **University of Southampton**   Sept 2020 - Aug 2023
                                                                    Southampton, UK

- **Grade :** First-Class Honours
- **Subjects:** Statics, Materials, Fluid Dynamics, Electronics, Mathematics, Management
  Thesis: Developing a **Lane Keeping System for a Hatchback** on CarSim/Simulink

Experience

Visiting Researcher, **NATO** - La Spezia, Italy   July 2024 – Dec 2024

Developed a simulator to increase datasets for near-collision situations using a model predictive controller (MPC). Improved Data-Driven trajectory prediction methods (**RNN Architecture**) of vessels by including maneuver-aware pooling in architecture.

Robotics Software Engineer, **University of Southampton** - Hampshire, UK   July 2022 – Aug 2022

Developed external **localization system** that detects rovers and localization and broadcasts position back. Helped **develop software architecture** following design patterns so students could develop their Navigation algorithms on rovers without understanding full code.

Student Internship, **Airbus Defense and Space** – Toulouse, France   Jan 2019 – Feb 2019

Completed a two-week internship: Researched and learned about the structure of Airbus telecommunications through interviews and research. Gained insights into the process of taking a product from concept to production.

Extracurricular Projects

AI and Robotics Engineer, **Lunar Zebro** - Delft   Sep 2023 – Jul 2024

Contributing to one of the **first student teams aiming to send a rover to the moon**. More specifically developing **computer vision for rock segmentation**, and software restructuring for the **IAC Milan** conference.

President of Robotics Association, Robosoc - Hampshire, UK   July 2022 – Aug 2022

Organized, **supervised** and **led** several projects such as 'autonomous chessboard', MAC challenge and Robo-dog. Gave electronics, CAD and coding tutorials to students.

Rugby Team Captain, **Thor 2** – Delft   Jan 2019 – Feb 2019

Fluent Languages: English, Italian, French	**Intermediate Languages:** Spanish
Competitions: UK Finalist of Uni Business Challenge, UK Finalist of the Eurobot Competition, MAC Challenge Finalist (Autonomous Vessel)	**Technologies:** Python, ROS, Linux, C++, TensorFlow, Pytorch, Docker, SolidWorks, Gazebo, CI/CD workflows