

Guillem Ribes Espurz

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Personal Statement

Studying MSc Robotics at the Technical University of Delft. High proficiency and experience in the use of CAD modelling and programming with Python and C++. Acquired through research and certified online courses as well as designed-based learning and university courses. Highly eager and motivated to explore innovative and transformative subject matter in the robotics field. Developed strong collaborative and communicative skills through diverse academic teamwork experiences with individuals possessing a range of abilities and backgrounds.

Education

MSc Robotics, Technical University of Delft (Graduating 2025) Delft, 2023-present

- Currently have a 7.75 GPA for the first two quartiles
- Relevant coursework: Machine Learning (Linear/Non-Linear SVMs, Random Forest, Neural Networks (TensorFlow, Scikit Learn), Deep Learning), Path Planning (MPC, ORCA, RRT), C++ and Python Object Oriented Programming, ROS, Git

Software Developer – Infrastructure (Robotics Team) Delft, 2023-present

- Software developer of the Delft Mercurians specializing in Path Planning by using Optimal Reciprocal Collision Avoidance (ORCA) in Rust.
- Currently on track to compete for 2024

BSc Mechanical Engineering, Technical University of Eindhoven Eindhoven, 2020 - 2023

- Graduated with a 7.0 GPA and an 8.5 for the Bachelor Thesis
- Relevant coursework: Data Analytics in Python, Siemens NX (CAD), Dynamics and Control of Robotics System

HackCodeX Junction Hackathon Riga, June 2023

- Worked in a team of 5 software developers in order to complete a fully working website which helps Alzheimer's patients remember crucial details of themselves by using the power of LLMs like ChatGPT
- Ended up with an honorable mention for the competition

Cybernetics & Artificial Intelligence, Technical University of Prague Eindhoven, Feb 2023 - Jun 2023

- I had the opportunity to attend Czech Technical University of Prague to gain more insight in Cybernetics and Artificial Intelligence. During the course, I was able to apply and develop my Python coding skills to implement several algorithms, such as the A* search algorithm, alpha-beta pruning, and Markov decision processes. I also gained valuable experience in image classification using Bayes classification, which involved analyzing and categorizing images based on certain characteristics. Highly improved my programming skills in Python by implementing such aforementioned algorithms.

International School of Basel (ISB) Switzerland (Basel) 2017 - 2020

- Earned a Bi-Lingual Diploma (English, Spanish) with Chemistry, Math and Physics Higher Level as well as English Literature, Economics and Spanish at Standard Level
- Awarded an A for the Extended Essay in Mathematics and a B for Theory of Knowledge

Work Experience

Novartis

Stein AG, Switzerland

Summer 2019

Ensured a hassle-free and organized environment by scanning and filing documents

Car Repair Garage

Staines, Surrey, UK

May 2017

Brought forth excellent customer service skills as well as excellent teamwork

Languages

Spanish and Catalan: Mother tongue

English: Fluent spoken and written

French: Certified B2 Level

German: Basic Proficiency (A2)

Italian: Basic Proficiency (B1)

