



Sloan ZAMMOURI

Robotics Engineer

CONTACT

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LANGUAGES

English: C1
French: Native
Spanish: B2
Portuguese: Native

SKILLS

- Robotics and Control
- Mechatronics
- Mechanical Design
- Simulations
- Soft Robotics
- Teamwork

SOFTWARE

Python	●	●	●	●	●
C++/C	●	●	●	●	●
ROS/Gazebo	●	●	●	●	●
CAD Softwares	●	●	●	●	●
FEM Softwares	●	●	●	●	●

INTERESTS

- Karate, 18 years, black belt
- Piano Player
- Marathon Runner
- Hackaton Enjoyer

WORK EXPERIENCE

DRONE ROBOTICS ENGINEER

[Umgrauemeio](#), São Paulo and Rio de Janeiro | July 2024-Sept. 2024

- Developed a simulation, using ROS/Gazebo and the DJI SDK, to deploy drones over the Amazon rainforest and stream camera footage
- Linked my simulation to the company main product “Pantera” and their vision-based detection model of wildfires to create a monitoring system
- Deployed a proof of concept on a DJI drone to detect a nearby fire

ARTIFICIAL MUSCLES RESEARCH INTERN

[Center for Artificial Muscles](#), Neuchatel | July 2023-Sept. 2023

- Developed an artificial sphincter based on new artificial muscle technology to help incontinent people
- Published a scientific paper [here](#)

INTERN

[Institute of Intelligent Systems and Robotics](#), Paris | July 2021

- Studied robotics/children’s interactions for the project [Animatas](#)

LAB ASSISTANT

[Institute for Brain and Spinal Cord](#), Paris | July 2020

- Helped making an intelligent cane for people having Parkinson’s disease

PROJECTS

TEAM LEADER OF ROBOTIC ARM SUB-SYSTEM

[EPFL Xplore](#), Lausanne | 2022-2024

- Led 10 students (from bachelor to PhD) with a 20k CHF budget to imagine and build a full customized industrial robotic arm, assemble it and program it to compete at the European Rover Challenge; where we won 2nd and 3rd places worldwide and best Arm task with certificate [here](#).

CUBESAT ENGINEER

[EPFL Spacecraft Team](#), Lausanne | 2022-2023

- Participated in building the electronics of the CubeSat we sent in orbit thanks to SpaceX

EDUCATION

MASTER OF SCIENCE (M.S.) IN ROBOTICS AND CONTROL

[EPFL, Lausanne](#) | 2024-Present

[Laidlaw Excellence Fellowship with University of Oxford](#)

Dublin and Remote | 2023 - 2024

BACHELOR OF SCIENCE (B.S.) IN MECHATRONICS

[EPFL, Lausanne](#) | 2021-2024