burenço **Gouveia Faria**

Toulouse (Occitanie), France

☐ Upon request | ■ lourencogfaria@gmail.com | ☐ lourenco-gouveia-faria

Education

ISAE-SUPAERO Toulouse, France Sep. 2024 - Present

M.S. IN AEROSPACE ENGINEERING (IN PROGRESS)

Instituto Superior Técnico Lisbon, Portugal

B.S. IN AEROSPACE ENGINEERING

Oct. 2021 - Jul. 2024

Grade: 16/20

Skills

Programming: C, C++, Python

CAD: SolidWorks

Additional software: MATLAB/Simulink, Mathematica, Git/GitHub, Docker, LaTeX (OverLeaf), Microsoft Excel

Languages: Portuguese (native), English (C2 Proficiency - Cambridge Assessment English), French (A2)

Projects

SupaeroMoon </> Toulouse, France

COMMUNICATIONS AND GROUND SEGMENT GROUP COLLABORATOR

Nov. 2024 - Present

Reviewed and documented team software for reliability and clarity

Acrobat 📥 Lisbon, Portugal

INSTITUTE FOR SYSTEMS AND ROBOTICS RESEARCH STUDENT

Jan. 2024 - Jun. 2024

• Designed a 3DoF dynamic model

Developed a model predictive controller for a Free-flyer for In-Orbit Additive Manufacturing

• Optimized PWM implementation through in-depth propeller behavior analysis

Rocket Experiment Division 4

Lisbon, Portugal

NAVIGATION COORDINATOR & CONTROL TEAM COLLABORATOR

Apr. 2022 - Jul. 2024

- · Competed in EuRoC, Europe's largest rocketry event
- Designed rocket navigation systems using Kalman filtering.
- Developed a secure flight stage detection system

Astro Pi - Mission Space Lab 🧩

Ponta Delgada, Azores, Portugal

Oct. 2020 - Jun. 2021

• Mapped global magnetic field intensity

· Collected and analyzed Earth's magnetic field data from the ISS

Work Experience

TEAM LEADER

NAV Portugal ('A') Relva, Azores, Portugal

ESTAGIAR-U PROGRAMME - SUMMER OCCUPATION

Aug. 2024

- Assisted ATSEP teams in maintaining CNS/ATM and energy systems
- Assessed meteorological simulation system for compliance and optimization

Observatório Astronómico de Santana, Açores 🛊

Santana, Azores, Portugal

Aug. 2020 & Aug. 2019

· Handled reception, telescope operations, and inventory management

Honors & Awards

OTLJ PROGRAMME - SUMMER OCCUPATION

Jun. 2024	Best prototype & Honourable poster (Acrobat), EletroCap	Técnico Inovation Center, Portugal
Oct. 2023	Payload award & 2nd Overall (RED), EuRoC	Santa Margarida Military Camp, Portugal
Oct. 2022	S3 flight award & 2nd Overall (RED), EuRoC	Santa Margarida Military Camp, Portugal
Jul. 2021	Winning Team (Mag-AZ), Astro Pi - Mission Space Lab	Escola Secundária Domingos Rebelo, Portugal

Portfolio available at: https://louxonline.github.io/