Renato**Loureiro**
aerospace engineer

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contact

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in r-loureiro
🐦 @rto_loureiro
◯ @renatoloureiro

languages
Portuguese, English
German (Basic)

programming
♥ LATEX
Python, C++, C
Matlab & Simulink ◢
JavaScript, html & CSS

personal projects & contribuitions
Weather extension
Positioning in GPS
BiSOS toolbox
Article Manager

other tools
SolidWorks
Autodesk Inventor
Git ◈, Linux 🐧

education

2020–2022	**M.Sc.** in Aerospace Engineering	, *IST, Lisbon, Portugal*

<u>*Thesis*</u>*: Analysis and Comparison of Iterative Bilinear Sum-of-Squares Region of Attraction Estimation Algorithms*

Degree with more emphasis into system control, system engineering, computer vision algorithms, optimization, telecommunications and electronics. Relevant grades and achievements:

· Systems Programming	17/20
· Computer Control	18/20
· Unmanned Aerial Vehicles	19/20
· Flight Testing	18/20

2021–2022	**Studying abroad**	, *University of Stuttgart, Germany*

Fully accredited as part of my second year of my master's degree.

2017–2020	**B.Sc.** in Aerospace Engineering	, *IST, Lisbon, Portugal*

experience

Part Time

2022 (6 months)	**Student Assistent**	, *iFR, Germany*

Work in the development of a Matlab toolbox to solve bilinear sum-of-squares optimization problems and study iterative algorithms to estimate the region of attraction of nonlinear systems.

Student projects

2021–2022	**UAV-ART Vision department collaborator**	, *Aerotéc, Portugal*

Development of computer vision algorithms for UAV applications, mostly feature selection, object identification, point cloud generation, simultaneous localization and mapping.

2019–2020	**Formula Student team member**	, *FST Lisboa, Portugal*

Work in a multidisciplinary project that implies autonomy, responsibility, continuous learning in areas such as project management, manufacturing, product design and CAD modelling.

volunteering

August 2018	**Volunteer at the IPHO**	, *Lisbon, Portugal*

Work as a volunteer at the International Physics Olympiad, being responsible for the Ecuador's team during the competition.

awards

2017–2019	**Academic Merit**	, *IST, Lisbon, Portugal*

Awarded to students with an excellent performance in their Bachelors.

interests

professional: data analysis, system control, software design, machine learning
personal: books, politics, cooking, running