Internship – Simulation Engineer   ⟨Ω⟩ O D Y S S E U S

Description of the Company:
ODYSSEUS Space is a start-up created in April 2016. Based in Luxembourg and Taiwan, our mission is to develop the future enabling solutions for space business and exploration. We are disrupting the industry by unlocking new technologies & services for the growing small satellites market.

ODYSSEUS Space won the spaceresources.lu challenge, from the newly created Luxembourg Space Agency. ODYSSEUS Space is using this price to develop its roadmap toward cost effective small satellites missions, through research and development on new technologies. In partnership with Observatory of Paris, ODYSSEUS Space is working on Optical Communications.

We are looking for a student or recent graduate to join an existing team based in our new office in Luxembourg to work collaboratively with a young, international and talented individuals on what will be the space technologies of tomorrow.

Description of the Job:
As a Simulation Engineer Intern you will be part of ODYSSEUS Space team in Technoport Belval (belval.lu), and you will be primarily be working on an existing Matlab simulation development which is at the heart of our laser communication system. After acquiring expertise about the current system, you will actively contribute with modifications and improvements that will be ultimately translated onto the optical test-bench. You will gain knowledge on control systems and feedback-loops.

Depending on the duration of your internship (minimum 4 months), skills and career direction, you shall also contribute to a variety of work packages such as: optical communications simulation for space environment, hands-on software implementation and control in our electronics board, and ultimately gain optical systems laboratory experience across our test bench.

In direct interaction with academic experts, ODYSSEUS Space engineers, students, interns, and upper management in a dynamic an international environment you will actively contribute to the development of our terminals. Previous experience with Matlab / Simulink software is expected. Complimentary experience in control-loop theory and/or embedded software are strong assets for the job.

As a Simulation Engineer Intern, ODYSSEUS Space offers a competitive @juallowance, an open-minded workplace, and an excellent launch pad for your career.

Must Have:
- pursuing (or recently graduated from) a Master's Degree in any relevant field, or equivalent
- experience in Matlab / Simulink
- capability of working both independently and as part of a team.
- the will to participate in a start-up adventure
- the will to learn new skills
- strong oral and written communication skills
- English proficiency
- European Citizenship

Nice to Have:
- experience in control-loop theory
- experience in optical simulations
- experience in fast prototyping
- experience in embedded software, C++ and/or Phyton
- experience in space sector (e.g., CubeSat, telecommunications, software or electrical engineering)

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