



Electronics Engineer

Location: Bari, Italy
Type: Full-Time

About Astradyne:

Astradyne is an innovative and fast-growing startup in the aerospace sector. We specialize in deployable structures for both space and terrestrial applications, combining flexible electronics with advanced fabrics. Our flagship product, SolarCube, is an origami-inspired solar panel that sets new standards for power efficiency and compact design in the industry. We are committed to developing revolutionary technologies that redefine the limits of what is possible.

Job Description:

We are seeking a passionate and skilled Electronics Engineer who is a quick learner and enthusiastic about space-related applications. If you want to join a young and dynamic organization whose mission is to design and build cutting-edge technology that will revolutionize the space sector, this may be the right opportunity for you!

The candidate will join the engineering division of the company, a fast-growing team who is applying advanced research and engineering skills, contributing to the development of the SolarCube, a lightweight and compact EPS (electronics power system) for satellites characterized by a novel origami-inspired folding structure. The candidate will be responsible for designing, testing, and maintaining electronic systems and components.

Key Responsibilities:

- Being the main developer for the electronics of the SolarCube EPS and implementing its main functionalities (route solar panel power to loads and batteries, charge/discharge lithium batteries, monitor and sensing system status).
- Write technical documentation (HW and SW requirements, block diagrams, system diagrams, design justification files, etc.).
- Design rigid-flex electronic circuits using Altium software (schematics, layout, gerber, BOM, PCB specification, procurement, etc.).
- Creation of schematic and layout footprints.
- Plan, develop and conduct tests to ensure the functionality and reliability of electronic systems and components are satisfied.
- Troubleshoot and debug electronic circuits and systems as needed.
- Collaborate with cross-functional teams to integrate electronic systems into final products.

- Stay up to date with industry developments and advancements in electronics engineering.
- Master the ECSS documentation related to electronics development and testing.

Qualifications:

- Master's degree in Electronics Engineering or a related field.
- Strong understanding of electrical and electronic principles, in particular:
 - DC-DC converters (buck, buck-boost, boost).
 - Lithium battery technology.
 - MCU microcontroller (STM32 preferred).
 - Actuators (DC motors, Brushless motors, Servo) and sensing (IMU, Temp. Sensors, etc.).
 - Communication protocols (CAN bus, I2C, SPI, etc.).
 - Rigid-Flex PCB technology.
- Previous experience with Altium and Solidworks software.
- Knowledge of programming languages such as C, C++ or Python.
- Experience in product development and manufacturing processes.
- Experience working with STM32 microcontrollers and Arduino is a plus.
- Experience with simulation software such as SPICE or LTspice is a plus.
- Ability to work independently and as part of a team.
- Excellent problem-solving and communication skills.
- Fluency in English language, both spoken and written.
- Previous experience in the design, manufacture and testing of electronics.

Benefits:

- Opportunity to lead a team in a cutting-edge aerospace environment.
- Competitive salary.
- A culture that values innovation, teamwork, and professional development.

Application Process:

Interested applicants should submit a resume, a cover letter detailing their experience in managing technical teams and bringing space-qualified products to flight status, and any relevant documentation or portfolio samples at the following email:

careers@astradyne.space



Astradyne is an equal opportunity employer. We value diversity and are committed to creating an inclusive environment for all employees.