

## **Embedded Systems / Power Electronics Intern**

### **Who we are and what we're looking for:**

Okulo Aerospace is an early stage startup based out of Bengaluru, Karnataka. Combining renewable energy and precision engineering, we are currently developing solar-electric hybrid aerial platforms that will revolutionize aerial data acquisition. We envision a world where drones can fly continuously without having to land at all and we are currently in the first step towards that realizing that vision. Co-Founded by alumni from Purdue University (USA) and TU Delft (Netherlands) with extensive research backgrounds, we are looking at joining hands with the next generation of talented individuals looking to embark on this exciting journey. You'll partner with our head of product to create groundbreaking technology. This is an incredible opportunity to make a meaningful impact on the future of Okulo Aerospace.

### **Responsibilities:**

- Work closely with the founders on important technological problems.
- Take the lead on systematically tackling challenging technical problems and develop novel solutions.
- Provide critical analysis of systems by using your science and engineering edge.
- Day-to-day designing and engineering activities, while possessing a meticulous nature to analyze various factors and calculations.
- Design, test and develop power electronic circuits for applications like Battery Management Systems, Maximum Power Point Tracking circuits, etc.
- Create electronic design schematics on relevant CAD software
- Develop systems using various embedded platforms, like Arduino, STM32 dev boards etc.
- Write, build, and maintain efficient, reusable, and reliable C/C++/Python code
- Drive innovation and research. Work in a team.
- Prepare documentation for design reviews and records

### **Basic Qualifications and Experience Required:**

- Bachelors/Masters in Electronics/Electrical/Instrumentation Engineering
- Technical experience in hardware and electro-mechanical systems

### **Expected skills:**

- Candidate should be proficient in the following software, prior experience highly preferred
  - MATLAB
  - C/C++/Python
  - PCB design software like Eagle
  - Eclipse based IDEs

- Candidate should have strong fundamentals in:
  - Coding and algorithm development
  - Knowledge of embedded systems and electronics

#### **Perks**

- Intellectual fulfillment and rapid personal/professional development.
- Fast-paced, innovative team and work environment.
- Letters of recommendation and certificate on successful completion
- Potential for conversion to full-time employment

#### **How to Apply:**

Internships Start Dates between December 9, 2019 and January 15, 2020

Internship duration: 1-6 months

You can reach out to us at [founders@okuloaerospace.com](mailto:founders@okuloaerospace.com) with a subject line “Application for Embedded Systems / Power Electronics Internship position”. Also, include your resume and contact details in the email.