

Job Description

Embedded Engineer

1-2 Yrs

General Aeronautics specializes in Drone / Unmanned Aerial Vehicle (UAV) development & deployment for agriculture, medical and defence use cases. General Aeronautics was established to address aircraft design in all its aspects from a comprehensive system-level perspective. The General Aeronautics team is comprised of highly experienced members with many decades of expertise in industry and R&D organizations internationally.

General Aeronautics is looking for an Embedded engineer responsible for the development and maintenance of embedded systems for UAV. You'll leverage your expertise in hardware and software to craft safety critical solutions to enable highly reliable operations of self-flying aircraft in diverse operating environments. You will be working along-side other engineers and developers working on different layers of the infrastructure. Commitment to collaborative problem solving, sophisticated design, and creating quality products is essential.

Responsibilities

- Designing and implementing both software and hardware solutions for different requirements for UAV
- Developing new embedded system for increasing reliability of UAV
- Reviewing, testing and debugging various embedded systems in the UAV
- Analyze and enhance efficiency, stability and scalability of system resources
- Maintaining the software programs, identifying technical issues, and documenting the resolutions implemented, as well as any other important data

Skills

- Knowledge about microcontroller, microprocessor, STM32, Arduino, Raspberry Pi etc.
- Knowledge in Embedded C/C++, python etc.
- Technical Skills in requirements definition, designing, code, testing and debugging
- Adequate knowledge of reading schematics, datasheets, technical documents for components
- Familiarity with embedded protocol standards (SPI, I2C, UART, USB, CAN etc...)
- Basic knowledge about electronics
- Knowledge of Linux, RTOS etc.
- Strong documentation and writing skills

Education

- B Tech / M Tech in Electronics Engineer or a related subject
- BS / MS degree in Computer Science, Engineering or a related subject
- Proven software and hardware development experience
- Solid understanding of the full embedded system development life cycle.