

Job Description for Autopilot Software Engineer

Job Title: Embedded Software Engineer

Department: Engineering

Reports To: Engineering Manager

FLSA Status: Exempt

Summary

Prioria seeks a passionate, experienced embedded software developer for the creation and implementation of low-level software functionality for use in autopilots and other robotic products.

Essential Duties and Responsibilities

- Engineering design and implementation of software sub-systems and functionality in autopilots for small unmanned aerial systems
- Creation of new functionality including new flight modes of operation, mode transitions, feedback loops, communication interfaces, protocols and messaging, failsafes, actuator control and optimization
- Attend and present design reviews
- Document designs with ample comments, reports, descriptions, issue tracking and resolution
- Develop reusable software and system components, and integrate these into existing and new designs
- Serve as technical lead on projects as assigned, working with customers to meet deliverables and address and resolve technology or system issues
- Support real-world test operations, and develop bench and other test procedures
- Some travel may be required

Required Skills

- Technical degree with focus in Computer Science
- Practical experience writing embedded software for an autopilot or similar robotics application
- Expert in C++ or embedded C developer
- Able to obtain or maintain a security clearance

Recommended Skills

- Experience with open-source autopilot hardware and software
- Experience modifying open-source autopilot software
- Experience writing proposals and developing technical work plans
- JIRA, Confluence and other Atlassian project management tools
- Git experience, or equivalent source code management
- Linux kernel and driver development experience
- NVIDIA Tegra software experience
- Wireless data transmission experience
- Qt development experience, or equivalent
- Windows, Linux, and mobile OS familiarity
- Web programming experience
- Controls theory and application
- Familiarity with Unmanned Aerial Systems
- Gimbaled and/or mechanized camera systems experience
- Experience with remote controlled aircraft and helicopters