Job Description for Computer Vision Expert

Job Title: Computer Vision Expert / Software Engineer
Department: Engineering
Reports To: Engineering Manager
FLSA Status: Exempt

Summary

Prioria seeks an expert in computer vision for the creation and application of detection, tracking, optical flow, neural networks, and related methodologies for use in robotics products and research proposals.

Essential Duties and Responsibilities

- Engineering design and implementation of computer vision algorithms such as detection, tracking, and optical flow, for use in robotics products and also to support research proposals.
- Creation of new algorithms to be used to solve novel problems
- Simulation-based and model-based analysis
- 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
- Support real-world test operations, and develop bench and other test procedures
- Some travel may be required

Required Skills

- MS degree with a focus on Computer Vision
- Practical experience in Software Engineering and Computer Science
- Expert in C, C++, or other language suitable for real-time vision processing
- Proficient with MATLAB and Simulink based modeling, or equivalent
- High-level technical writing skills and the ability to communicate complex ideas to technically savvy non-experts
- Able to maintain a security clearance

Recommended Skills

- Qt development experience, or equivalent
- OpenGL familiarity
- Linux kernel and driver development experience
- Git experience, or equivalent
- Controls theory and application
- Experience writing proposals and developing technical work plans
- Familiarity with Unmanned Aerial Systems
- Photogrammetry theory and application
- Autopilot development or tuning experience
- Gimbaled and/or mechanized camera systems experience
- Experience with remote controlled aircraft and helicopters
- Strong interpersonal skills in a multidisciplinary environment