POSITION AVAILABLE

Salary Grade: S10  
Req: A00005

Honeybee Robotics (HBR) is a leader in advanced robotic systems for the worlds’ toughest environments. We are an R&D engineering company that builds unique solutions for our customers’ challenges, on Earth and in space.

HBR seeks an accomplished professional for the position of Software Engineer, reporting directly to the Vice President of ARG and reside in the Brooklyn, NY area.

Responsibilities:

• Implement software development, test, and release tools and processes that support the rapid pace of programs
• Contribute to overall robotics software architecture and roadmap decisions
• Develop novel algorithms and technology that can be applied to advanced safety-critical robotic applications
• Evaluating and identifying improvements to system designs with specific focus on robust autonomy
• Interfacing with scientists, engineering managers, product management, and/or program management to drive new product development programs from concept to production
• Create technical documentation (e.g. specifications, flow charts, hazards analysis) for complex systems
• Provide hands-on support to cross-functional product development teams serving markets including space, defense, medical, manufacturing, & other industries.

Requirements:

Education/Experience

• US Person (Citizen or Permanent Resident)
• BS degree (MS preferred) in Robotics, Computer Science, Computer Engineering, Electrical Engineering or equivalent.

Required Qualifications:

• 2-6 years (or 0-6 years w/ MS) post-grad experience developing/delivering/sustaining complex cyber-physical software applications for PCs and embedded targets
• 2+ years working with space, mobile, industrial, or medical robots
• 2+ years development with ROS and/or OROCOS
• Fundamental understanding & development experience with major processor & microcontroller architectures (x86, ARM, etc.)
• C/C++ development on soft- and hard-realtime platforms
• Python development for rapid algorithm development and orchestration
• Experience developing distributed and asynchronous architectures
• GUI, bus and device driver development (USB, Serial, PCI, PC-104, etc.),
• Development experience with robotic systems and theory (e.g. mechatronics, kinematics, dynamics, sensing, control, planning, etc.)
• Software architecting, requirements management, configuration management, & verification & validation experience
• Strong communication skills including verbal, written, and interpersonal.
• Team player. Desire and energy to work in a fast-paced environment
• Strong ownership, passion, and a love for solving problems

Preferred Skills:

• 2+ years development with one or more RTOS platforms
• Experience developing robotic fault detection and recovery architectures
• Model-based and adaptive control algorithms

HONEYBEE ROBOTICS, LTD
www.honeybeerobotics.com
• Motion planning, navigation, & mapping algorithms (e.g. stochastic sensor fusion, SLAM), machine perception algorithms
• Experience working with and developing machine learning algorithms
• Experience working with real-time dynamic simulation frameworks
• Familiarity with industrial robot safety standards (e.g., ISO/TS 15066 & medical device software standards (e.g., IEC 62304)

If you are interested or know someone who may be interested in this position, please send cover letter and resume to Heather Fegan, Human Resources, fegan@honeybeerobotics.com.

*Honeybee Robotics, Ltd. is an Equal Opportunity Employer (EOE). Qualified applicants are considered for employment without regard to race, religion, color, sex, age, disability, sexual orientation, genetic information, national origin, or veteran status.*