Position: Software Developer
Employment type: Full time; contract
Start Date: January 1, 2021
Salary: 3500~5000 USD/month based on experience
Location: Remote

Blue Robotics is a small and rapidly growing company that manufactures marine robotics components and vehicles like the BlueROV2. As a Software Developer at Blue Robotics you will be able to clearly see the value that your work adds to our company and maritime community. You will join a small eclectic software development team that works with a range of different technologies, bleeding edge development practices, and an open-source culture of marine robotics enthusiasts, scientists, and professionals.

You will have an opportunity to fit into a contributing role on a number of projects spanning many technologies. Responsibilities will include developing software in new and existing projects, debugging, testing, and occasionally getting wet. We require a fast learner who is independent, resourceful, and able to communicate effectively.

A core component of our BlueROV2 underwater robot is the Raspberry Pi 'companion' computer. It is responsible for managing communications with the pilot computer located topside, integrating peripheral sensors like sonars and positioning systems, integrating cameras, streaming video, and running the autopilot software that controls the ROV. The companion software also implements a web interface to allow the user to configure and manage the system, update the software, and collect diagnostic and log information.

As your main role, you will be developing a new software platform for the companion computer with containerization, microservices, web applications and flexible API design. The software will be cross-platform (x86, ARM) and be developed with continuous integration and testing, and automated deployments. The result will be flexible, maintainable and efficient open-source code that is easy for your teammates and users alike to use and understand. You'll deal with hardware/software integrations and automated testing with real hardware. You won't be alone in your development efforts, but some basic understanding of these topics are necessary to make valuable contributions to the team.

An eligible candidate will meet **all** of the *required* qualifications. An exceptional candidate may also meet one or more of the *preferred* qualifications. Also, be free to share any experience that you may find interesting for the open position.

Required Qualifications and Experience:
- The ability to learn, solve problems, develop skills, and complete work independently
- Excellent git and GitHub experience
- Comfortable developing in Linux environment
- Excellent communication skills and a team-oriented attitude
- Familiarity with containerization (Docker)
- Experience with microservices architecture (Swagger, REST API/GraphQL)
- Experience with networking technologies (HTTP, UDP/TCP, websockets, WebRTC)
- Experience with frontend/backend web development

Preferred Qualifications and Experience:
- Familiarity with embedded development (both microcontrollers and embedded linux)

- Familiarity with robotics, especially the RC/drones world (ESCs, flight controllers, electronics)
- Maritime experience
- Linux kernel/driver/module development experience
- Qt framework experience (Qt, QML, C++)
- Willing to learn new technologies and modern languages + language features

Benefits include:
- 100% Remote opportunity
- Flexible schedule
- Education fund (books, courses)
- Periodic trips to California and hands on experience with boats and ROVs

To apply, send your resume/CV to jobs@bluerobotics.com with the subject 'SOFTWARE DEVELOPER'.