



## JOB POSTING

### Software Engineer

Are you passionate about the ocean? Are you into Robotics? Do you tinker and have too many hobbies? Do you enjoy discovering solutions to challenging problems? Do you want to help give access to a part of our planet that only a small number of people have had the opportunity to experience? If yes, then we are looking for you.

DeepFlight designs, builds, and operates personal submarines for recreation and tourism. We are expanding operations to provide underwater tours at luxury resorts worldwide.

#### Responsibilities

We seek a creative, adaptive, and responsible **Software Engineer** to join our team. The successful candidate will join a multi-disciplinary team developing advanced underwater vehicles. You will possess a variety of skills in multiple electronics disciplines, and will demonstrate outstanding creative problem-solving skills and ability to work with little oversight and deliver according to specification and performance requirements. Successful team members we have typically have worked on many projects on their own time, or have worked on and delivered complex and reliable systems for a variety of industries- Land, Sea, Air, and Space.

The responsibilities will be multi-faceted including building and integrating sensors, hardware, software, mixed systems, digital and analog circuits, power control electronics, motion control, project planning, hands-on development, and user interfaces associated with underwater vehicles.

We are looking for a best fit according to skills, culture, attitude, and ability to deliver.

#### Required Skills and Experience

In addition to the specific requirements listed below, this position requires excellent design skills, a demonstrated technical proficiency, passion for creativity, and excellent communication skills. S/he will have exemplary technical skill in Software Engineering and ideally possess experience in the design and development of dynamic motion-based systems or robotics. Preference will be given to individuals demonstrating outstanding creative problem-solving skills and ability to work with little oversight. Additional preference will be given to candidates showing strong electrical skills, particularly with electrical design experience and/or familiarity.

- BS Computer Engineering, Computer Science, Electrical Engineering or similar engineering discipline
- 5 or more years of relevant industry experience of Robotics, motion control, power systems, sensor fusion, control algorithms, vehicle systems, video systems, data acquisition and analysis, any mechatronic systems.
- Ideal experiences: Autonomous vehicles, drones, vehicle systems, power, control electronics, firmware, verification and validation testing



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### Software Engineer

- Skilled in both microprocessor firmware development and deployment/bring-up on electronics platform
- Proficiency with microprocessor architectures and hardware abstraction layers. (e.g. STMbed, Arduino, Raspberry Pi, etc)
- Proficient with a variety of programming languages such as C/C++, Python, Matlab, iOS, Android, Javascript
- Familiarity with common communication protocols (RS-485, CAN, I2C, SPI, Ethernet, USB)
- Familiarity with embedded operating systems (e.g. Linux, RTOS, etc.)

#### Desired Skills

- Embedded software development and troubleshooting ability
- Electronics Lab tools (e.g. oscilloscope, protocol sniffer, etc.)
- Software and system level implementation and bringup
- Ability to perform Root Cause Analysis from system failures
- Clear and organized code base across multiple projects and libraries
- Strong software documentation and revision control (e.g. Git, JIRA, Trac, etc.)
- Capable of performing Software Architecture Trade Studies

#### General Skills

- Self driven, independent, ability to multi-task and complete assignments
- Excellent documentation and communication skills
- Team player
- Please submit project portfolio along with application

**Job Type:** Full-time

To apply, send your resume and project portfolio to [careers@deepflight.com](mailto:careers@deepflight.com)