Electronics Engineer

JOB DESCRIPTION

Strategic Robotic Systems is a small dynamic company designing and manufacturing intelligent underwater robotic systems, based in Redmond. We are seeking a self-motivated, innovative and detail-oriented individual that is capable of working as part of a team in a constantly changing environment.

The company’s product is a hybrid autonomous/remote controlled underwater vehicle that utilizes a number of sophisticated sensors for imaging, navigation and data collection. As part of the SRS team the EE will work with various team members to further develop the product, design new features and investigate next generation concepts.

RESPONSIBILITIES

- Develop a comprehensive understanding of the company’s product including electronics, sensors and associated systems.
- Design electronics in conjunction with partner companies as well the mechanical and production team.
- Where possible look to improve electronic design to evolve the product with the latest available technology.

QUALIFICATIONS

- Minimum BS/MS in Electrical Engineering.
- 2+ years of experience in electronic hardware development.
- Highly detail oriented, logical and methodical.
- Good understanding of circuit design, firmware and reading schematics.
- Experience using/debugging UARTs, RS232 protocol, ASCII codes and communications protocols.
- Experience using/debugging SMBus and I2C protocols used in Li-ion smart battery system.
- Experience using Altium designer software.
- Knowledge in signal integrity including cable screening, EMI, ground loops, high speed signal cables and 1000-BaseT network wiring.
- Knowledge of microprocessors (i.e. PIC, AVR, etc).
- Familiarity with ARM Cortex M4 processors a plus.
- Familiarity with C and C++ programming language a plus.
- Familiarity with real time operating systems such as FreeRTOS and ROS a plus.
- Understanding of Linux and hosted services such as SAMBA and Berkley sockets a plus.
- Familiarity with Ethernet stacks and protocols as well as networking setups including DHCP servers, network diagnostics a plus.
- Able to work in the field.
- Possible foreign and domestic travel.
- Visit our website at [www.srsfusion.com](http://www.srsfusion.com)