Software Test Engineer for Controls - Energy Storage Opportunity

Large scale energy storage is one of the fastest growing sectors in the power infrastructure industry and UET is well positioned to capture a significant market share. Explosive market growth is fueled by the exciting transformation of the industry towards distributed renewable energy sources and increasing energy efficiency. Energy storage is fundamentally essential to accelerating the adoption of renewable generation sources, optimizing efficiency, and adding resiliency to our energy infrastructure.

We are seeking a software test engineer who is specialized and experienced in embedded software testing for industrial control systems at the real-time and supervisory levels. In particular, you will be primarily responsible for developing a testing framework and methodology for our new control platforms. The position will include black box testing, unit testing, modeling and simulation, quality assurance, failure effects analysis, and more. The successful candidate will play a critical role in building and maintaining UET engineering and innovation excellence as the company grows to meet demands of the rapidly expanding field of energy storage.

Required Skills

- Fundamental understanding of the software testing process, able to independently design and implement a complete testing methodology for a new embedded software platform
- Significant experience with black/white box testing, robust and fault tolerant control methods, software quality assurance and change management processes, failure modes and effects analysis
- Hands on experience testing and characterizing system level features, behaviors, and performance
- Some experience developing PLC based or embedded control software for industrial systems
- Plays well in a multi-developer software team, clear communicator and collaborative attitude, understands state machines and utilizes tools like UML to keep organized and coordinated
- Familiar with and a believer in the concepts and implementation of object oriented programming
- Some knowledge of basic control theory, electric power systems, and power conversion electronics
- Previous experience with battery, fuel cell, or other renewable power systems is helpful

Education / Experience

- Bachelor of Science in Computer Science, Electrical/Computer Engineering, or equivalent
- 3+ years of experience in a product engineering environment

Job Location

Mukilteo, WA, United States

Company Profile

UniEnergy Technologies (UET) produces and delivers megawatt scale, energy storage solutions for utility, commercial and industrial, and microgrid customers. We’re at the cutting edge of smart energy management enabling customers to cut their greenhouse gas emissions and provide more clean energy. The core patented technology is an advanced vanadium flow battery, with a new generation electrolyte first developed and patented at Pacific Northwest National Laboratory with the support of the US DOE Office of Electricity. UET’s solution is differentiated by industry leading footprint density, broad ambient temperature stability, and is 100% recyclable. The water based technology is inherently safe, operationally flexible, reliable, non-degrading, and economically compelling. The Uni.System™ is the largest deployed vanadium flow battery in North America and Europe that supports demand response, peak shaving, renewable generation integration, ramping, frequency and voltage regulation. UET operates a 60,000 square foot engineering & manufacturing facility scaling up to produce 100 megawatts annually.