JOB POSTING

Software Engineer (Battery/Energy Storage)

Smartville is a rapid-growing renewable energy company located in sunny Carlsbad, CA. Software Engineer at Smartville will work on the embedded control system for high voltage renewable energy system with solar, battery energy storage and grid interface.
Responsibilities

- Develop, enhance and debug new and existing real-time controller software and firmware in Go, C++ and C.
- Develop HIL testing environment using python or Matlab
- Drive firmware development for performance, scalability, modularity, robustness, and tight integration with the hardware.
- Hands-on control system build up, system debugging and code optimization.
- Implement continuous improvements and best practices within the team, and larger organization.
- Drive firmware/hardware co-design for optimized solutions and schedules.

Requirements

- BS or higher in EE, CS, Physics, or related discipline with software development experience.
- 2+ years of project Experience with BMS development. Experience with model-based control and implementation of SOC SOH estimation, battery prognostics, and remaining useful life (RUL) prediction is preferred.
- 2+ years of experience implementing firmware for power conversion, thermal controls, battery management, or other physical product implementations.
- Capable of delivering top quality Go, C and C++ code in a real-time embedded environment.
- Knowledge of scripting (Python, MATLAB, Unix, etc.) for test automation and data analysis desired
- Expert software fundamentals including architectural design, algorithm development, data structures, code modularity, and maintainability.
- Significant multithreaded and real-time operating system (RTOS) experience.
- Desired to have test-driven development experience using unit testing, software in the loop, and hardware in the loop methodologies. Our developers participate significantly in firmware testing, so a validation mindset is required.
- Strong documentation and communication skills

Contact

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