

Electrical Engineer Consultant - San Diego Based

Orison was founded in 2013 to provide all electricity consumers with control and security over their energy while contributing to a self-healing, efficient energy grid. Orison energy storage is the first self-installable, lightweight, low cost, scalable, indoor home battery system. Units include battery storage, power conversion electronics and a smart networking control system.

Job Description

Contract with opportunity for growth into full-time position. Projects will focus on developing products from concept through design, development, verification, release to manufacturing and support with the end goal of delivering cost-effective energy storage systems. Responsibilities will include system integration that includes both signal-level and high-power sub-systems, with knowledge of common-mode current, high dV/dt noise, circuit design, schematic capture, PCB layout and test. Candidates must be able to work independently in a fast-paced, dynamic, highly technical environment. Candidates should be highly motivated with a deep fundamental understanding of power circuits and high-frequency power conversion concepts.

Responsibilities:

- Lead design evaluations and guide development of the system electronics for the integrated power converter, intelligent control systems, and batteries.
- Organize and perform prototyping improvement efforts, direct and coordinate in-house and external prototype fabrication efforts.
- Improve EMI using shielding, noise cancellation, filtering, and noise suppression to pass regulatory standards including IEEE 1547, UL 1741 and FCC Part 15B standards.

Skills Include:

- Demonstrated ability to take designs from concept through to mass production; experience with regulatory agency approvals (e.g. FCC, CE), and release to manufacturing.
- Experience with system integration that includes both signal-level & high-power sub-systems, with knowledge of common-mode current, high dV/dt noise, and experience mitigating same to achieve successful integration / operation.
- Design system isolation from the high frequency emission of the power converter.
- Knowledge of improving operational ability of process control, communication system and digital data processing.

To Apply:

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