



Position: Lead Firmware Engineer

About us

Arka energy is focussed on changing the paradigm on energy. Arka focusses on creating innovative renewable energy solutions for residential customers. With its custom product design and an innovative approach to market the product solution, Arka aims to be a leading provider of energy solutions in the residential solar segment. Arka designs and develops end to end renewable energy solutions with teams in Bangalore and in the Bay Area.

The job

The Principal Firmware Engineer will manage a team in the design of new firmware architectures, applications and libraries to ensure on-time delivery and requirements are met. You will interface with cross-functional teams to understand system design requirements and translate them into embedded requirements, and be responsible for the delivery of the same.

Key duties and responsibilities

- Develop and refine engineering requirements based on marketing and user needs
- Lead design and implementation of embedded software systems
- Peer-review software designs and source code
- Establish and execute test procedures for software applications and subsystems
- Analyze and enhance efficiency, stability and scalability of system resources
- Lead agile project teams through the new product development process
- Drive continuous improvement of development operations (DevOps)
- Effectively manage a technical team and provide technical guidance to achieve cost, performance, and schedule requirements

Qualifications

- Strong Embedded C experience. Multicore micro-controller programming skills. Experience in using Debugger
- Experience developing bare-metal firmware designs
- Power Electronics Knowledge - AC/DC, DC/DC Power Converter Experience
- Familiarity with software configuration management tools, defect tracking tools, and peer reviews
- Ability to read schematics and component data sheets; basic understanding of digital circuits and interaction between firmware and electronics
- Experience with Model Based Design using Matlab and Simulink
- Knowledge of product safety concepts
- Proficiency with Github, Jira/Confluence
- Good organizational skills
- Demonstrated ability using laboratory equipment such as oscilloscopes, logic analyzers, power supplies, e-loads, and data acquisition systems
- Bachelor's degree with at least 7 years of experience, or Master's with at least 4 years of experience or a PhD in electrical, computer or other appropriate engineering discipline.

Other desirable aspects

- Master's degree in Computer Engineering, Computer Science, Electrical Engineering or related fields
- Leadership or project management experience
- Strong documentation and writing skills



- Ability to travel up to 10% (Domestic and International)

Key Benefits

- Competitive development environment
- Engagement into full scale systems development
- Competitive Salary
- Flexible working environment
- RSU in an early stage start-up
- Incentives on filing of patents
- Health Insurance for employee + family
- Life Insurance for employee