Position: Power Electronics 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 power electronics engineer will be involved with the design, development, testing, compliance and reliability of the custom power conversion products at Arka. You may be involved with the cross functional team of firmware engineers, IoT developers to ensure that the final product meets and exceeds the requirements of the market.

Key duties and responsibilities

- Demonstrate predictive design approach through simulation, rapid prototyping to get the right product the first time.
- Design of Converters (AC-DC, DC-DC), Inverters for renewable applications
- Design of HF transformer and Inductors for the power topologies.
- Responsible for evaluating, testing, verifying and validating the product
- Follow processes and procedures as per product development guidelines
- Interface with FW development team
- Involve in the PCB design and give support to CAD engineer
- Work with agile project teams through the new product development process
- Work on reliability prediction and demonstration with clear targets for reliability

Qualifications

- Masters in Power Electronics System or B.E. in Electrical Engineering with 4+ Yrs. Of experience
- Strong 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
- Demonstrated ability using laboratory equipment such as oscilloscopes, logic analyzers, power supplies, e-loads, and data acquisition systems

Other TOOLS we prefer you to have

- Proficiency in schematics and layout design using CAD tools (e.g. Altium)
- Simulation driven development methodologies
- 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