



[Yaskawa – Solectria Solar](#), a wholly-owned subsidiary of Yaskawa America, Inc., is the largest commercial inverter manufacturer in the U.S. Solectria’s products include 3.8 to 750 kW inverters, string combiners and web-based monitoring for all size solar systems. We offer a friendly work environment, great benefits, the ability to work with cutting edge technology and the chance to work with an innovative and dynamic team. We are conveniently located off I-495 in the Riverwalk complex. To apply for this or any other position, e-mail your resume to hr@solectria.com.

POSITION DESCRIPTION

TITLE: **Mechanical Engineer**
SUPERVISOR: **Mechanical Engineering Manager**
CLASSIFICATION: **Exempt, full-time**
LOCATION: **Lawrence, MA**
REFERENCE CODE: **ENG-2016-168**

DUTIES:

1. Design and prototype power electronics assemblies utilizing custom parts and preselected components
2. Create designs and all of the associated documentation
3. Revision control of mechanical parts and their associated drawings under a design control environment
4. Specify new materials and components and verify that design specifications
5. Technical point of contact for contract manufacturers and part suppliers
6. Work closely with Manufacturing Engineering to develop and maintain build instructions
7. Lead mechanical related design verification of designs; e.g. prototype builds, thermal performance evaluation, environmental testing, etc.
8. Assist Quality Team in developing incoming material inspection points
9. Assist in determining root cause issues and develop corrective actions
10. Train technicians and assemblers in proper assembly techniques
11. Other duties as assigned

REQUIREMENTS:

1. BSME with 8– 10 years of related experience or MSME with 7 – 9 years of related experience
2. Experience in developing hardware in an Agile/Scrum methodology. Scrum Master Certification is a plus. Ability to work leading a mechanical team and meeting sprint goals consistently.
3. Demonstrated proficiency in SolidWorks; SolidWorks PDM experience is a plus; SolidWorks Electrical experience is a plus; SolidWorks Simulation or another FEA/CFD package experience is a plus;
4. Familiarity and experience with mechanical designs for power conversion solutions involving: magnetics, heat-transfer, compact packaging of electronics, thermally managing PCBs
5. Experience designing mechanical components for products manufactured at volumes of 10,000 to 20,000 year
6. Demonstrated product development experience; specifically, with taking an idea from the concept stage to production. Excellent familiarity with Product Development Process practices.
7. Mechanical design experience utilizing sheet metal, machined parts, plastics, cold-formed plastics and self-clinching fasteners
8. Experience in creating mechanical drawings; knowledge of GD&T is a plus
9. Experience with ECR, ECO and ECN processes
10. Demonstrate proficiency in holding design reviews to drive design process and decisions
11. Ability to generate engineering documentation such as design reports; technical writing experience is a plus

12. Excellent oral and written communication skills
13. Ability to work independently, prioritize tasks and push hard to meet demanding deadlines