

Senior Electronics Technologist

ICT is looking for an experienced Senior Electronics Technologist. The successful candidate will be passionate about power electronics design of high reliability production ready power conversion products in the 100W to 4kW power range. Work in this position is focused on assisting with the design, prototyping and validation of power conversion products. If you are passionate about power electronics design and have hands on lab experience then send us your resume and a cover letter outlining how your experience and achievements line up with the ICT Senior Electronics technologist role, qualifications, and responsibilities described below.

Responsibilities

- ▶ Develop hardware schematics and PCB layouts with Altium design
- ▶ Build engineering prototypes, validate designs and develop corrections to meet electrical system requirements
- ▶ Develop products using state-of-the-art digital power conversion topologies to achieve high efficiency, high power density and high performance (Bridgeless PFC, LLC, N+1 redundant system, current sharing, etc.)
- ▶ Perform unit validation testing as well as PCB, system level verification, and validation testing to meet electrical specifications and regulatory compliance
- ▶ Design and select components of power converters, including transformers, inductors, embedded microcontrollers, MOSFETS, drivers, gate drive transformers, optical isolators
- ▶ Design, model and simulate control and power circuits using simulation tools such as PCIM, PSpice, LTSpice, Simulink, Matlab
- ▶ Perform design revisions and updates on new and existing products and assists in transferring designs to manufacturing, ensuring reliable and cost-effective production
- ▶ Use a bill of material management system to set up new and maintaining existing part numbers (BOMs and ECNs)
- ▶ Executing and documenting product-engineering tasks such as performance, reliability, and product release testing
- ▶ Assist factory processes (i.e. DFM, DFT, NPI and Manufacturing Test)
- ▶ Working as part of a team, and supporting other technical members with related product development tasks to help achieve project goals and timelines



Qualifications

- ▶ Technical diploma or degree, preferably in electronic/electrical or related field
- ▶ Schematic capture and PCB layout experience using electronics design/layout CAD software - experience with Altium Designer required
- ▶ Minimum 5 years of working experience as an Electronics Technologist or similar role
- ▶ Progressive experience in all aspects of switch mode power converter design of topologies
- ▶ Strong understanding on design for reliability, DFMA, safety and EMI regulatory certification
- ▶ Experience with both analog and digital embedded control design
- ▶ General knowledge on mechanical and product assembly and testing
- ▶ Excellent communication, organizational, and documentation skills, along with the ability to work with others to achieve project goals and time lines
- ▶ Ability to work as part of a team or with minimal supervision

Only candidates selected for an interview will be contacted.

About ICT

ICT is a leading manufacturer of power system products for land mobile radio, fixed wireless broadband and industrial power markets. Our power solutions help improve uptime, reliability and quality of service by providing reliable remotely monitored and controlled power to critical communications equipment.

For more information, please see www.ict-power.com

Interested candidates should send resume and cover letter to:

Muntasir.Alam@ictcorporate.com