Unitron, LP

TITLE OF POSITION:	Power Design Engineer
DEPARTMENT:	Engineering
REPORTS TO:	Chief Engineer

Position Summary –

Develop Power Design Requirements, Specifications, and Printed Circuit Boards for Power Converter Systems in Airborne, Facilities, Aircraft Ground Support, and Marine Applications. Individual Contributor and must be Self Motivated to work as part of an Engineering Team.

Principal Duties and Areas of Responsibilities –

- Lead the Power Hardware Design effort of a Multi-Disciplined Engineering Group.
- Develop System Level Hardware Requirements, Specifications, and Documentation.
- Perform Design Analysis, Schematic Capture, Breadboard, and create Bill of Materials.
- Work with third party Circuit Board Design Contractors to validate Design and Construction.
- Follow-up with Component Obsolescence issues and Engineering Changes.
- Work with in-house Design Engineers, Production, Field Service, and Third Party Developers.
- Familiar with Industry accepted Hardware Documentation Procedures and Practices.
- Plan and Manage the Project Schedule, Costs, Risk Reduction, and Development Issues.
- Generate Requirements for Test Plans, System Integration, and Production.
- Learn Advanced Technologies and Techniques for new Product Development.
- Hardware Development Strategies; Planning, Schedules, and Design Reviews.
- Develop Test Fixtures for Debugging new Hardware and Automated Test Equipment.
- Become Familiar with existing Product Line and Support Manufacturing Test Department.
- Maintain Laboratory Test Equipment; Serviceability, Calibration, Repair and Replacement.
- Must be skilled at working with others during System Integration and Design Validation.
- Design per National and International Regulatory Requirements; UL, IEC, NEC.
- Provide Telephone Support for Field Service personnel.

Education, Specialized Knowledge, and Experience –

Education -

- Minimum BSEE Degree from an ABET Accredited Institution.

Preferred –

- 2-5 years related Experience as a Power Systems Designer and Hardware Developer.
- Analog/Digital Power Design; Power Supplies, UPS, Motor Drives, Power Converters.
- Strong Control Theory and Modeling skills; PowerSim, OrCAD, PSpice, Spice.
- Familiarity with Automated Programming Tools; IDE's, Debuggers, Device Programmers.
- Experience in Commercial, Military, and/or Maritime Environments.
- Experience in Power Conversion; Power Supplies, Hardware Interfaces, Drive Controls.

Required –

- Be an Individual Contributor or a Strong Member of an Engineering Team.
- Strong Experience in CAD Systems, Simulation Tools, and Computer Workstations.
- Knowledge of Automated Control Systems, Thermal Analysis, Digital Control a plus.
- Experience in gathering Requirements and creating System and Sub-System Specifications.
- Firmware Debug and Troubleshooting skills; Usage of common Laboratory Test Equipment.
- Excellent written and verbal Communication Skills; MS Word, Excel, PowerPoint.
- Relevant Work History that reflects Stability, Personal Growth, and Loyalty.

Equal Opportunity Employer