



Job Description

Electrical/Electronics Design Engineer

1. **JOB TITLE:** Electrical/Electronics Design Engineer
2. **LABOR GRADE:** N/A
3. **SECURITY CLEARANCE:** Ability to obtain a Government security clearance required.
4. **PHYSICAL REQUIREMENTS:** Ability to lift a minimum of 25 lbs. Must be able to travel up to 10% of the time.
5. **EDUCATION:** Minimum: Bachelor of Science Degree in Electrical Engineering or equivalent experience in a related technical discipline required. MSEE degree preferred.
6. **PREVIOUS EXPERIENCE:** 5+ years experience in detailed design, analysis and test of analog circuits such as: DC bias circuits for amplifiers & mixers, phase lock loops (PLL), control circuitry, voltage conditioning and sequencing for switching power supply modules, etc. commonly used with RF and digital circuitry.

Understands discipline for detailed design synthesis & analysis of these circuits and their testing using laboratory bench equipment that includes spectrum analyzers, DC power supplies and oscilloscopes. Experience working with switching power supplies, AC/DC conversion and/or RF is a plus.
7. **JOB REQUIREMENT SUMMARY:** Provide engineering design, analysis and test of certain analog circuitry.
 - 7.1 Ability to design, simulate, analyze and test a variety of analog circuitry such as: DC bias circuits for amplifiers & mixers, phase locked loops (PLL), control circuitry, voltage conditioning and sequencing for switching power supply modules, etc. commonly used with RF and digital circuitry.
 - 7.2 Create schematics and lead the PCB Designer to create documentation to build the printed wiring assembly (PWAs).
 - 7.3 Ability to set-up and operate test equipment and perform electronic measurements on prototype analog circuits, subassemblies and modules.
 - 7.4 Assist production personnel with troubleshooting problems that are engineering based, resolve the issues and create documentation changes that leads to fix the issue.
 - 7.5 Write technical documents, for example, test procedures, test datasheets,



- technical memoranda for reporting any technical issues, etc.
- 7.6 Verify product performance vs. predictions for prototype electronic products and production electronic products.
 - 7.7 Analyze product's electronic failure data and malfunction testing trends, troubleshoot yield issues and recommend product improvements, including test improvements.
 - 7.8 Participates in continuous improvement and team building activities. Maintains productive working relationships with all team members.
 - 7.9 Exhibit the following personal characteristics: superior communication skills, sound judgment, effective listening techniques and incisive deductive reasoning ability.
 - 7.10 Openly display a commitment to ethical business conduct and appropriate social behavior while representing TM on or off our premises.
8. **SUPERVISION:** Manager, Product Design Group
9. **TRAINING PERIOD:** Responsibility of position requires minimal orientation period. Continual development process through reading materials, seminars, conferences, trade shows, etc.