

# RIEtech Global, LLC

## Job Description

**Title:** Electronics Technician

**Job Summary:** Lay out, build, test, troubleshoot, repair, and modify developmental and production electronic components, parts, equipment, and systems, such as computer equipment, control instrumentation, and test equipment, applying principles and theories of electronics, electrical circuitry, engineering mathematics, electronic and electrical testing. May assist engineers in testing and designing precision motion control devices.

**Responsible to:** Production Manager

**Primary Duties & Activities:**

1. Read engineering drawings, wiring diagrams, schematic drawings, and engineering instructions for assembling electronic units, applying knowledge of electronic theory and components.
2. Assemble circuitry or electronic components, according to engineering instructions, technical manuals, and knowledge of electronics using hand tools and power tools.
3. Test, using standard test equipment, to evaluate performance and determine needs for adjustments.
4. Build and calibrate assemblies to meet operational specifications and tolerances.
5. Design basic circuitry and sketches for design documentation, as directed by engineers, using drafting instruments and computer aided design equipment.
6. Analyze and record test results, and prepare written documentation.

**Other Duties & Activities:**

1. Operate basic office and production computer software.
2. Monitor products and processes for continuous quality improvement (CQI).
3. Other duties as assigned.

**Job Specifications:**

**Education, Training & Experience:**

1. High school diploma (or equivalent) and vocational training or job related course work. Prefer two or four year degree in Electrical Engineering, Software Engineering or related field of study.
2. Eight to ten years experience through formal educational institution, on-the-job experience and/ or informal training with experienced workers in the areas of robotic or servo system prototype assembly, PCB prototype assembly, troubleshooting analog and digital circuits at the component level, EMI/EMC mitigation, and robotic system integration.
3. Experience in schematic capture through CAD software (e.g., PADS).
4. Experience in C language programming with embedded systems.
5. PC computer literacy in Word, Excel, Netscape, Windows NT.

**Essential Physical Requirements:**

1. Ability to lift 25-50 pounds comfortably.
2. Ability to communicate verbally and in writing with others regarding products and services.
3. Ability to utilize all information systems within the corporation (computer, phone, etc.).