

Technical Lead

The Technical Lead will serve as the primary liaison between manufacturing and engineering. The core job function will be to interpret design intent, communicate it to manufacturing technicians, and conduct advanced technical support for the manufacturing team, assist in the correction of problems, perform tooling selection and provide training, in order to ensure that projects are completed successfully meeting quality objectives. The Lead Technician will also prepare reports and offer design recommendations and manufacturability improvements to Engineering based on design flaws that are discovered during the prototyping process. The Technical Lead will use manufacturing and/or engineering processes and will stay informed of any changes in processes and or procedures. The Technical Lead must have the ability to effectively work cross-functionally, including suppliers and customers.

- **REQUIRED:**
 - Performs routine to moderately complex electro-mechanical, pneumatic & vacuum, process technical functions and activities such as test, checkout, fabrication, modification, troubleshooting, rework, and assembly, experimental design circuitry, using specialized test equipment, tools and test fixtures. Experience with linear guides, lead screws, bearings, electrical enclosures, electro-mechanical sensors, actuators, pneumatic cylinders and fittings.
 - Proficiency with the application, operation and troubleshooting of mechanical, electrical and SW systems found in advanced automated manufacturing equipment, such as: robots, precision stages; vision systems; pneumatic systems; high vacuum systems; lasers systems, servo & stepper motor circuits; AC & DC power distribution, EMO/safety circuits, PLC controls & PCs/networking.
 - Act as Manufacturing's liaison to Engineering, help plan, train and execute system-level testing in Manufacturing, assist with builds, bring-up, and field installations/issues; including interpreting design intent, debugging & troubleshooting. During tool bring up validate IO connections and IO controller configurations, such as thru beam sensors or analog input devices, on/off sensors, motor sensor position indicators, limit and home switches.
 - Train manufacturing and customers on new system operation, troubleshooting, and service.
 - Works from schematics, diagrams, written and verbal instructions, layouts or plans to perform routine testing and troubleshooting.
 - Perform basic PC troubleshooting, setup and configuration. Install standard PC based software packages. Ability to navigate file systems, locate directories and files. Basic network troubleshooting skills including, connecting network control devices and PCs together. Setting IP addresses, troubleshooting connections and cabling.
 - Experience setting up robot controllers, using teach pendants to verify robot IO. Ability to teach robot positions and validate teach positions are correct.
 - Experience using PLC development tools to troubleshoot IO and locate system faults. Prefer PLC experience with Mitsubishi, Beckhoff, and Rockwell.

- Basic understanding of Cognex and other vision systems and vision software tools.
Ability to use PC software tools to establish connection to cameras and bring up live video for troubleshooting.
 - Compiles test procedures documentation from engineering
 - Generates Quality Notifications.
 - Experience using basic shop tools/equipment, including grinders, drill press, band saws, arbor press
 - General understanding of material properties and coatings
 - Experience using MS Excel, Word, and PowerPoint
 - Excellent verbal communication skills
 - Motivated self-starter
 - Ability to work under little to no supervision, work may be in a clean room environment.
 - Familiarity with GD&T, limits and fits
- PREFERRED, BUT NOT REQUIRED:
 - Experience with CAD software, such as Solidworks and AutoCAD
 - Ability to design alignment fixtures
 - Understanding of ISO quality, environmental, and safety standards