

OT1031 - Mechanical/Hardware Engineer I (TCP_01)

Job Family: Engineering - Mechanical/Hardware

Job Family Definition:

Designs, analyzes, develops, modifies and evaluates materials, mechanical systems, equipment and packaging. Conducts feasibility, design margin and validation analysis and empirical testing on new and modified designs. Leads and/or assists in architecture development and assessment. Evaluates reliability of materials, properties, designs, and techniques used in production. May direct support personnel and/or partner organizations in the preparation of detailed design, design testing, prototype fabrication, and production tooling.

Management Level Definition:

Contributes to assignments of limited scope by applying technical concepts and theoretical knowledge acquired through specialized training, education, or previous experience. Acts as team member by providing information, analysis and recommendations in support of team efforts. Exercises independent judgment within defined parameters.

Responsibilities:

- Designs portions of engineering solutions for mechanical and thermal hardware, electronics enclosures, and production tooling based on established engineering principles and in accordance with provided specifications and requirements.
- Implements established test plans for existing designs, including validation of tolerances, form/fit/function, shock and vibration, electromagnetic interference, safety, reliability, developing fan curves, system power measurements & acoustics.
- Develops understanding of and relationship with internal and outsourced development partners on mechanical and thermal design and development.
- Participates as a member of project team of other mechanical hardware engineers and internal and outsourced development partners to develop reliable, cost effective and high quality solutions for low to moderately- complex products.

Education and Experience Required:

- Bachelor's or Master's degree in Mechanical Engineering.
- Typically 0-2 years experience

Knowledge and Skills:

- Experience or understanding of ProEngineer or other 3D CAD software as a mechanical design tool.
- Good analytical and problem solving skills.
- Understanding of design for sheet metal and plastic parts and associated production tooling and processes.
- Understanding of thermal properties of materials and heat transfer.
- Good written and verbal communication skills; mastery in English and local language.