



Global Position Profile

Global Position Name	Function	Comp Class
Product Design Engineer	Engineering	CC01

Job Summary

Applies developing knowledge of engineering principles and practices to assigned tasks in the design, development, analysis and release of products and subsystems through the product life cycle. Assists in creating design specifications considering application, cost, weight, performance, product life, manufacture, assembly and service. Verifies design using analysis and or functional testing, interprets results, drives decisions and assesses risk. Works with other engineering disciplines and cross-functional disciplines to resolve product issues. Evaluates customer needs and aligns requirements with identified customer expectations.

Key Responsibilities

Uses prescribed, established methods, and works under direct guidance.
Participates as a team member.
Learns team roles and how to contribute towards team goals.
Carries out defined and partially defined tasks.
Learns and applies basic knowledge of an engineering discipline.
Applies engineering and/or scientific skills and develops experience in creating engineering solutions.

Qualifications and Competencies

Skills

Cross-Functional Design Review - Cross-functional design reviews are a series of in-depth and disciplined sessions that bring broad cross-functional experience to bear on designs/or process approaches and details. Able to apply the cross-functional design review procedure with limited guidance.

Dimensional Variation Analysis - Developing understanding of inputs and outputs of a Dimensional Variation Analysis (DVA), knowledge of Geometric Dimensioning/ relationships, comparison to Monte-Carlo simulation and able to interpret the DVA results and use them to iteratively optimize the design.

Geometric Dimensioning & Tolerancing - Understanding basic principles of Geometric Dimensioning & Tolerancing (GD&T) to include: correctly interpret dimensioning/ Tolerancing methods, understanding of the terms, rules, symbols, and concepts of GD&T as prescribed in the ASME Y14.5M-1994.

Product Structure - Product structure involves an understanding of the rationale around the identification of product items and the methodology for structuring this information into saleable, manufacturable and serviceable product. Users are expected to demonstrate proficiency in understanding and applying product structure rules such as item compatibilities, dependencies and relationships.

Design For Manufacturing And Assembly - Understands the underlying principles, techniques and procedures design for manufacturing and assembly appropriately as part of work. Performs/could perform design for manufacturing and assembly effectively.

Education, Licenses, Certifications

Bachelor of science, or equivalent degree in engineering required.

Experience

Minimal relevant experience desired.