Cable Plans, Customer Installations and Process Improvement

Minimum internship duration: 6 months

THE OPPORTUNITY

Join our R&D environment and help translate approved customer layouts into clear, accurate electrical cable plans. You will learn the system in detail and take increasing responsibility for real engineering work.

YOUR MAIN ACTIVITIES

- Study customer layouts, existing drawings and machine configurations.
- Create and update electrical cable drawings for customer installations.
- Determine cable types, lengths and quantities.
- Prepare cable tables and electrical Bills of Materials (BOMs).
- Document 24 VDC, AC power, protective earth and network connections.
- Review drawings against design rules and process review comments.
- Coordinate technical questions with Mechanical and Electrical Engineers.

WHAT YOU WILL WORK WITH

Industrial machines and modules, electrical cabinets, cable routing, connectors, power distribution, grounding, network chains, switch-port assignments, and controlled engineering documentation.

SIDE ASSIGNMENT: IMPROVE THE PROCESS

While creating cable plans, investigate how the process can become easier, faster and less dependent on R&D capacity.

- Track missing or unclear input information.
- Identify repetitive manual work and recurring review comments.
- Highlight causes of delays or rework.
- Recommend standardization, templates, checklists and automation opportunities.

TOOLS AND ENGINEERING ENVIRONMENT

Microsoft 365

- Word
- Excel
- Teams

Engineering

- SOLIDWORKS Electrical
- SOLIDWORKS Mechanical

Document Management

- SOLIDWORKS PDM

EXPECTED RESULTS

- One or more completed or substantially developed cable plans.
- Accurate cable tables, Bills of Materials (BOMs) and documented checks.
- An overview of practical process bottlenecks.
- Improvement recommendations and, where useful, an updated template, checklist or work instruction.
- Final internship report and presentation.

WHO WE ARE LOOKING FOR

- MBO Level 4 or HBO student in Electrical Engineering.
- Available for a minimum of six months.
- Interested in electrical cabinets, wiring, cables and industrial automation.
- Accurate, quality-conscious and comfortable reading technical drawings.
- Eager to learn, ask questions and take responsibility.
- Prior knowledge of Autodesk AutoCAD Electrical and Autodesk Vault is considered an advantage.
- Brings enthusiasm and initiative while understanding that implementing sustainable improvements in a large medical technology organization requires patience, collaboration and stakeholder alignment.

WHAT WE OFFER

Practical electrical design work, close cooperation with R&D and Service, real customer projects, and responsibilities that grow alongside your technical knowledge.