

Job Category: Electrical Application Engineer

Employment Type: Full time, salaried experienced professional

Hours of work (per week): 40 + travel (as required)

Location: Strongsville, OH

Introduction

This position is within our applications engineering department. This division of the department's work is focused on mobile equipment's electronic control and electrical mechanical power transmission systems. Projects range from the component level through fully integrated system design and sub-system interaction.

Key Responsibilities

- Size low voltage electric motors for propel, hydraulic pump, steering, and other electromechanical functions.
- Electromechanical system design and component selection
- System design, hardware selections and software application development. Utilizing either a windows based graphical platform (Danfoss Power Solutions, *Plus +1 Guide* or C,C++ variations)
- Electrical schematic development in AutoCAD.
- Provide detailed responses to customer inquiries pertaining to electrical or electronic control components or systems. Typically by email or telephone, but also through face to face meetings.
- Work with a team of applications engineers to support customers, field sales, internal customer service, and internal technicians.
- Work closely with other members of the application engineering team to review and share product knowledge.
- Regular communication with field sales team members to develop customer specific hydraulic and or electronic control system solutions.
- Travel to customer's location for system start up, troubleshooting, and training

Desired Education & Qualifications

B.S. in Electrical or Mechanical Engineering or Mechanical / Electrical Technology

Desirable Skills & Experience

- Comfortable with multitasking and working in a team setting
- CAN protocols (CAN OPEN, J1939)
- System FMEA analysis
- Hands-on technical aptitude
- DC electrical symbols and control methods
- Electric Motor types and control methods
- DC control wiring methods and skills
- Closed loop feedback systems (PI / PID control theory)
- Microsoft Office (Excel, Word, Power Point, Outlook)
- Programming experience (C, C++, PLC, JAVA, XML, HTML)
- AutoCAD / Inventor or other 2D and 3D platforms