Electrical Design Engineer

The Electrical DE will utilize extensive knowledge of industry standard cable assembly design and manufacturing practices to develop and maintain cable assembly designs in accordance with Epic Aircraft specifications. Will also be responsible for providing technical leadership and guidance to the Electrical Design Engineering Team.

Job Duties:

- Responsible for electrical design & drafting including wire diagrams/schematics, and installation drawings for new and retrofit design.
- Create wire harness assembly drawings in CAD
- Adhere to aircraft manufacturing requirements (routing separation, structure bonding, bend radii, etc.)
- Coordinate certification and program requirements with suppliers (internal and external)
- Oversee harness routing and connecting electrical components
- Participate in Design Reviews as required.
- Perform power consumption studies and electrical loads test laboratory evaluations
- Process Engineering Change Documents and drawing updates as necessary
- Provide design support to Epic production engineers and process engineers
- Provide technical leadership to electrical design engineering team and production line
- Represent Electrical Design Engineering team in value stream meetings and activities.
- Responsible for creating 2D drawings to include Bills of Material, cable assembly layouts, schematics and/or wiring diagrams.
- Work closely with Program Managers to assure customer issues are identified, resolved and schedule commitments are clearly communicated and accepted.
- May be required to design cable assemblies from information derived from 3D CAD models.
- Attend engineering milestone meetings such as PDR, CDR and FAI
- Develop a strong relationship between other departments such as Quality, Manufacturing and Purchasing.
- Maintain accuracy and schedule attainment metrics and provide analysis and feedback to goal achievement.
- Other duties as required in support of the department and company.

Job Requirements:

- Minimum 5 years aircraft electrical design experience required
- Bachelor's degree in Electrical Engineering or equivalent experience required

- Extensive knowledge of aerospace regulatory requirements and general design requirements for aircraft wiring.
- Conceptual design through production drawings using AutoCAD and Solidworks
- Electrical harnessing or subcomponents design experience
- Thorough understanding of components, processes, equipment, standards and terminology used in Aerospace cable assembly design.
- Understanding product structure and assembly tree breakdowns
- Ability to analyze block diagrams, wire diagrams and harness drawings
- Excellent oral, written, and organizational skills, and be able to fluently read, write, speak and understand the English language.
- Extreme attention to detail in regard to spelling and part number designation
- Ability to stay organized and prioritize multiple project
- Able to effectively communicate with all levels of personnel and customers.
- Excellent computer skills including Microsoft Office.
- Manual dexterity used occasionally with repetitive finger motion.
- Specific vision abilities include close and distance vision, able to identify colors and adjust focus.