

Mechanical Engineer - CT

Responsible for generation and revision of detailed mechanical design drawings of custom highly sophisticated and technologically advanced Industrial x-ray inspection systems.

Job Description:

- Work closely with the Mechanical and System Engineering teams both in CT and NY for the design of electro-mechanical and/or material handling systems.
- Create, modify and finalize detailed mechanical designs; from Top assembly level through to assembly and fabrication level drawings
- Transform concept designs into detailed final documents using Solidworks
- Review engineering drawings and designs to ensure adherence to established specifications, internal guidelines, quality standards and national codes and standards.
- Produce and/or validate design calculations to verify design
- Generate, revise, and finalize BOMs
- Interact with a cross-disciplinary engineering team (mechanical, electrical, software, imaging) to generate and edit 2D and 3D designs using Solid Works
- Work with Production, Design & Installation teams to revise drawings and generate final as built package
- Provide support to Technical Writing and Project management Teams in the creation of technical documentation, system manuals, and customer facing documentation.
- Travel to customer sites as required in support of technical discussions, kick off meetings, oversee installations, or trouble shooting.
- Initial one week to one-month cumulative familiarization, training and hands-on work at the NY facility.

Essential Skills:

- Bachelor's Degree in Mechanical Engineering.
- 4 plus years of experience designing electro-mechanical and/or mechanical systems using Solid Works for mechanical design.
- Previous experience generating fabrication level detail designs for electro-mechanical components
- Familiarity with motion control products and standard motor/gearbox components
- Working knowledge of pneumatics
- Ability to work to schedules under time constraints in a dynamic environment
- Proactive, team player with established verbal and written communication skills.
- Experience working with and generating BOMs within an MRP or ERP system.
- Prior experience in a QA controlled design environment. (ISO 9000, NQA-1, or similar)

- Experience writing design specifications
- Familiarity with motion control products and standard motor/gearbox components
- Strong mechanical and electrical aptitude and problem-solving abilities
- Must be highly organized and self-motivated
- Experience with Microsoft Office Suite of Tools
- Must be a US Citizen or US Permanent resident who is legally authorized to work in the US and able to successfully pass a background check and pre-employment drug test.

Non-Essential Skills:

- Experience generating assembly and fabrication level designs, documents, and drawings for electro-mechanical systems incorporating the use of robotics, conveyance, automation and/or part manipulation.
- Prior experience with NDT and or X-ray equipment