

Mechanical Design Engineer

We are looking for a creative, dynamic, highly motivated, and self-starter mechanical design engineer. In this position, you will be an integral part of the engineering team to analyze, design, and develop various systems. The Mechanical Design Engineer has been deemed a safety sensitive position.

***VJ Electronix requires all new applicants to be vaccinated against the COVID-19 virus.

Job Description:

- Take primary ownership of multiple concurrent design projects
- Design and maintain new products in a team based, stage gate development process
- Apply mechanical engineering knowledge of machinery principles and materials, manufacturing methods and processes to ensure designs are functional, practical, economical, and satisfy customer requirements.
- Confirms system capabilities by designing for feasibility, manufacturability, and maintainability
- Plan effective component and system level experimentation to verify and validate engineering designs to product requirements
- Prepare clear and concise documentation for designs, including drawings, inspection and test requirements, calibration procedures, and work instructions.
- Prepare knowledge briefs, white papers, and engineering reports.
- Collaborate with leadership and key stakeholders to ensure designs help further business objectives
- Occasional travel to customer sites worldwide to participate in concept and technical discussions, or trouble shooting approx. 5%.

Requirements:

- Bachelor's Degree in Mechanical Engineering
- 5 to 7 years of experience in mechanical design of multi-disciplinary systems
- Expert-level skills with Solidworks (preferred – Creo experience acceptable)
- Experience with PDM
- Proficiency in FEA and CFD tools
- Proficiency and working knowledge of GD&T and tolerance analyses
- Experience with manufacturing and manufacturing processes (machining, sheet metal, 3D printing)
- Understanding of product development process (stage-gate, product development cycle)
- Proficiency in the English language with established written and verbal communication skills
- Must be legally authorized to work in the US and must be able to successfully pass a complete background check and drug test

Non-Essential Skills:

- Experience in X-ray system development a plus
- Experience in automation controls
- MATLAB

Physical Requirements:

- Must be able to frequently communicate and exchange information in a team environment.
- Must be able to constantly operate standard office and industrial equipment.
- Must be able to occasionally move up to 25 pounds.
- Must be able to constantly work in a stationary position.

The contents noted within this job description are not all inclusive and are subject to change.