

Lead Mechanical Engineer – Mobile / Automation / Robotics Design

Job Title: Lead Mechanical Engineer

The Challenge: Harvest CROO is searching for a lead mechanical engineer for helping to design large mobile agricultural robots. This is a direct hire opportunity located in Tampa, FL.

JOB ROLE WILL BE TO:

The Lead Mechanical Engineer will be responsible for overseeing the mechanical design of company projects in addition to providing expert level hands-on design of complex automation and robotic systems using Solidworks design software. Additional responsibilities for the Lead Mechanical Engineer include the following:

- Responsible for engineering, designing (Solidworks), and maintaining complex turn-key automation and robotic systems that optimize manufacturing processes across automotive, food, and agricultural industries.
- Conduct of design reviews and manage projects, budgets, and timelines.
- Work closely with executive staff to drive business development initiatives.
- Operate computer-assisted engineering and design software and equipment to design solutions and build prototypes and test designs in the on-site machine shop which includes CNC machining, CNC Fabrication, welding and manual machine tools.
- Hands on assembly work for engineering lab/prototype robots and testing equipment.
- Committed to hands-on work on robots and their applications in the shop and in the field.
- Conduct experiments to test robotic systems for performance and reliability of these systems.
- Knowledge of basic programming logic.
- Employ thorough understanding of physics and mathematical analysis to validate design.
- Prepare specifications for purchase of materials, equipment and prototype designs.
- Investigate and diagnose equipment failures and design short and long-term solutions.
- Knowledge of lever, gear, magnetic, hydraulic and pneumatic drives and actuators.

JOB REQUIREMENTS:

- The Lead Mechanical Engineer will have 4-7 years total experience in a product design, machine automation or machine design with expertise using Solidworks or any other 3D CAD software.
- BS required, ME preferred from a well-established university (Big 10, Ivy League, well renowned Engineering program).
- Modeling and analysis of complex mechanisms
- Electronic prototyping and embedded control experience
- Solid experience in Automation/Robotics design along with the ability to manage and lead teams.
- A charismatic individual with excellent communication skills, both written and verbal.

- Knowledge of typical failure modes of robot systems.
- If the application requires new design at robot or component level, provide design solutions following standard prototype development process including concept, design, review, parts drawing, prototype, test/evaluation/analysis and QA. Prepare the necessary document per design standard and management requests.

Years of Experience:

4+ years

Location:

Tampa, FL

Salary:

Negotiable

Job Contact:

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