



## Design Engineer II

Farris Automation is a supplier of custom automated assembly equipment for the automotive, heavy industrial, and general manufacturing industries. We offer complete turnkey systems from concept to installation. Farris Automated Systems employs engineers, machinists and assemblers in Mukwonago, WI. See our website at [www.farrisautomation.com](http://www.farrisautomation.com) for more details.

We are searching for engineers that can create new designs from a white sheet of paper. Every machine we make is unique. Your ideas will be combined with the customers' requirements and the rest of the Farris team.

Mechanical design of automated equipment that requires the knowledge of cylinders, machining components, linkages, motors, HP, torque, pneumatics, and basic electrical controls.

### **Requirements**

- Independent and self-motivated worker
- 5 years of mechanical automation design  
1-2 years of experience on the job
- 3 years of SolidWorks or Creo
- Machine frame design and welding principles
- Detailing of components and assemblies
- Hands on trouble shooting and assembly of machines

### **Ideal Candidate will have 3 or more of these skills**

- Knowledge of pneumatic circuits and sizing principles
- Motion using servo motors, linear drives and ball screws
- FEA analysis using CAD
- Ability to specify and pick out purchased components and vendors

### **Standard work week**

#### Machine Design

- Final design of machines from a napkin sketch / concept



- Picking out purchased components and insuring they are properly sized for the applications
- Detailing parts for the machine shop
- Creating assembly drawings and weldment drawings
- Organizing BOMs for purchasing
- Machine improvements / ECNs
- Modifying existing machines under development and test
- Upgrading current designs to new customer requests
- Replacing long lead time items with an alternative that can meet the deadline.
- Assembly of machines
- Mechanical assembly of designs
- Trouble shoot/ improve existing machines as they are debugged

The job will be non-repetitive in nature with 5-8 machines designed per year. The estimated job categories are:

- 50% CAD design
- 20% Drafting
- 20% Hands on assembly and building
- 10% Misc.

**Benefits:**

- 2 weeks vacation, + holidays, + Flex Hours, comp time
- Job training on new technologies for current applications
- 401k, Health insurance and profit sharing

Job Type: Full-time

Expected hours: No less than 40 per week

**Benefits:**

- 401(k)
- 401(k) matching
- Dental insurance
- Flexible schedule
- Health insurance
- Health savings account
- Life insurance



- Paid time off
- Relocation assistance
- Retirement plan
- Tuition reimbursement
- Vision insurance

Schedule:

- 8 hour shift
- Monday to Friday
- Weekends as needed

Education:

- Associate (Preferred)

Ability to Relocate:

- Mukwonago, WI 53149: Relocate before starting work (Required)

Work Location: In person