



May 11, 2011

**Position:** SolidWorks Machine Designer

**Location:** Rochester, NY

**Job Description and Primary Requirements:**

Seeking a machine designer with SolidWorks experience. Successful candidate will be an individual with 5-10 years experience with machine design/equipment design. The qualified candidate should have project experience designing manufacturing systems and equipment. This experience should include 3D modeling, dynamic mechanism designs, machine and part detailing.

**Preference:**

- Web conveying and converting equipment, both narrow and wide
- Coating equipment , particularly slot die design
- Process manufacturing equipment, packaging equipment

**Solid Work 2010 & 2011 Skills:**

- Assembly and Components
- BOM
- Properties and Analysis
- Simulation (FE Analysis) experience

**Design Knowledge:**

- Fits and tolerances
- Materials of construction
- Weldment design
- Machining knowledge
- Bearing selection and mounting methods
- Power Transmission equipment
- GD&T

**Design Philosophy:**

- Brainstorming, ability to provide alternative concepts
- Provide simple and cost effective approaches to meet functional requirements
- Concept Design-simple 3D design to show enough functionality to sell ideas
- Preliminary- middle step after concept showing more detail. This step provides sizing, interface definition, actual machine geometry
- Final/Detail – Depiction of individual parts (dimensioning, annotation) with proper form, fit, and function
- Ability to check work and be accountable

**Team and Leadership Skills:**

- Works well with others
- Follows directions from Project Engineer/s
- Can lead and explain work to detailers or designers
- Project planning, including logical progression of design activities. Includes workload planning using tools like Excel
- Ability to estimate design hours for different phases
- Good communication skills with Project Engineers and Clients
- Ability to meet schedules, provide work arounds when needed

Submit your resume by email for consideration and reference the position desired to [employment@optimation.us](mailto:employment@optimation.us)

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