

Joseph M. Cooley

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(541) 954-3022

Over 6 years of professional experience in computer modeling, 3D mechanical design, leadership and project management in a variety of fields including, optics, vehicle design, heavy material handling and water treatment.

WORK EXPERIENCE

Project Engineer, [Hydro International](#), Hillsboro, OR 2008 – Present

- Water treatment equipment design including parts modeling, complete drawing packages, and bill of material creation.
- Lead engineer of large installation projects which included directing equipment fabrication, vendor management, and coordinating engineers to ensure equipment was delivered on time and budget
- Complete ground up modeling in Autodesk Inventor of six product lines using advanced features such as multi-solid body modeling, iLogic (Visual Basic), and Vault
- CAD knowledge base for supporting project engineering department questions and problem solving
- Innovating company software and practices to reduce drawing release times by 75% through creation of custom automation within Inventor software

Design Mechanical Engineer, [Johnson Crusher International](#), Eugene, OR 2008

- Design of track mounted conveyor systems for the heavy construction and wood product industries
- Modifying existing designs and implementing changes when completed

R&D Mechanical Engineer, [Country Coach Corporation](#), Junction City, OR 2007 – 2008

- Responsible for prototype design and acting liaison between the design and build teams
- Problem solving to modify product designs quickly and efficiently when faced with unforeseen build challenges
- Use of Autodesk Inventor for digital prototyping using ANSYS FEA and sheet metal packages
- Collaborated on design of a coach mounted extendable veranda system with build team

Mechanical Engineering Intern, [Optical Short Course International](#), Corvallis, OR 2006 – 2008

- General opto-mechanical work including, analysis, design and fabrication of complex high precision optical instruments and systems using Solidworks
- Design of high precision sphereometer, custom laser based reflectometer, and computer automated wide field of view lens tester
- Worked with customers brainstorming to create 3D models and detailed designs of multiple concepts

EDUCATION

Oregon State University, Corvallis, OR 2007
Bachelor of Science, Mechanical Engineering Emphasis: Dynamic systems and controls

SKILLS

Project Management, Prototype Design, Mechatronics, GD&T, Autodesk Inventor, AutoCAD, Showcase, Vault CAD Data Management, Matlab, Simulink, Labview, Solidworks, Microsoft Office

POST-BACCALAUREATE PROFESSIONAL DEVELOPMENT

Advanced Part Modeling, Advanced Assembly Modeling, Microcontroller Programming, Digital Logic, C programming, Lean Six Sigma Yellow Belt (Certificate #1608386)