

Richard Urwiller

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Education

- **Colorado School of Mines – Golden, Colorado** **December 2012**
B.S. Engineering – Mechanical Engineering Specialty

Certifications/Skills

- **Certifications:** EIT (CO), Certified SolidWorks Professional & Certified SolidWorks Associate - Simulation.
- **Classes-Areas of Expertise:** Failure Theories, Statics, Dynamics, Heat Transfer, Fluid Mechanics, Material Properties, Machine Design, Computer Aided Design, Finite Element Analysis (FEA), Mathematics to Fourier Transforms and Linear Algebra, Signal Processing, Feedback Control (Analogue and Digital), Computer Aided Data Acquisition, Info Systems, Circuit Analysis.
- **Engineering Software Experience:** SolidWorks, SolidWorks Simulation, MathCAD, Matlab, LabVIEW, C++, VBA, Visio, ESS, Minitab.
- **Documentation & Project Management Software Experience:** Microsoft Excel, Access, Project, PowerPoint, Word, Lotus Notes.

Engineering Projects

ASSIT LLC, Senior Design (Design avalanche survival system)

- Lead design of hard armor subsection of project.
- In charge of acquisitions for prototype development and required material testing.
- Performed ideation within client's needs.
- Prepared project reports, briefs and presentations.
- Built full size prototype within client's budget.
- Regularly interfaced with client.
- Drafted Invention Disclosure for Preliminary Patent.
- Placed 1st at Fall 2012 CSM College of Engineering and Computations Sciences Trade Fair and created SolidWorks model of design.

SolidWorks/ SolidWorks Simulation

- Independently obtained: Certified SolidWorks Professional establishing me as a highly competent professional developing engineering models, drawing, and sketches in SolidWorks; and Certified SolidWorks Associate – Simulation for competency in performing 3D FEA in SolidWorks Simulation.

Internship/Volunteer Experience

Internship - ABS (American Bureau of Shipping: Houston, TX) (Type Approval)

- Gained insight into ABS design review process, specifically in client submission requirements.
- Familiarity with using ABS rules and SOLAS requirements in the Type Approval process.
- Interacted with a multidiscipline group of engineers.
- Updated companywide Process Instructions.
- Reduced backlog of type approval projects by 25%.
- Help complete a time-sensitive project that was previously behind schedule.

Broomfield Fish (Food Bank: Broomfield, CO)

- Unload and sort Food Bank intake in coordination with fellow team members.
- Ensured quality assurance and proper storage of received food.
- Provided assistance and guidance to other volunteers in my area of responsibility.