

Benjamin Walters E.I.T.

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Education **University Of Vermont** **8/2009- 5/2013**
Bachelor of Science: Mechanical Engineering, Minor in Mathematics
3.2 Cumulative GPA
Passed Fundamentals of Engineering Exam in Vermont **10/2012**
Credential #: 017.0089472

Skills

• Solidworks Pro (2010-2012)	• Strength of Materials	• Design for Manufacturing	• Theory of Constraints
• Autodesk Inventor (2009)	• Biomaterials	• Component Design	• Processing Techniques
• MATLAB	• Fluid Dynamics	• Lean Manufacturing/Six Sigma	• Market Experience
• Visual Basic	• Thermodynamics	• Production Scheduling	• Consumer Knowledge
• Microsoft Office	• Rocket Propulsion	• Planning for Sustainability	• Leadership

Experience ***Burton Snowboards(Senior Design Co-op), Burlington VT*** **8/2012- 5/2013**

- Team based project building and manufacturing a laboratory test machine to analyze damping characteristics
- Vibration table design successfully demonstrates differences in damping of various boot liners
- Presented a formal design report to Burton which included design, test results, cost/marketability analysis, and user manual

Vermont Agency of Transportation (Research Intern), Montpelier VT **5/2011- 9/2012**

- Porous concrete data collection of water quality, infiltration, and controlled water release
- Operation of equipment such as a Clegg impact soil tester and lightweight deflectometer
- Explored the rate of corrosion on a variety of rebar samples using different materials
- Produced published research reports and site visit reports
- Designed highly organized Excel spreadsheets for large amounts of project data

Zumiez Marketplace Mall (Trainer, Sales Associate), Henrietta NY **6/2008- 1/2013**

- Earned a trip to Keystone, CO for selling over \$100,000 in skateboarding and snowboarding merchandise within first six months of employment
- Traveled to regional stores to train new managers on inventory, tracking and meeting goals

Alternative Energy Racing Organization (ME Lead), UVM **9/2010- 5/2013**

- Designing and building a hybrid race car to compete at annual SAE competition
- ME team lead for steering subgroup, designed layout of a rack and pinion steering system
- Use of SolidWorks Simulation FEA analysis to test wheel upright, steering bracket
- ME team lead for car body subgroup, designed and fabricated a fiberglass body
- Worked with “Plasan Carbon Composites” using carbon fiber to build floor close-outs and seat
- Designed a gas tank using SolidWorks, used fiberglass hand lay-up process to fabricate
- Conducted a structural equivalency at the race, which allowed us to pass mechanical inspection
- Experience with welding, brazing, lathe, mill, drill press, grinders, and powered hand tools
- Led our teams business presentation with GM representatives at the 2012 competition

RTW Services (Laborer), Pittsford NY **6/2005- 9/2011**

- Ability to read blueprints and develop plans for a wide variety of contracting projects
- Projects include roofing, siding, flooring, plumbing, remodeling and renovation
- Worked in a small team building a house from its foundation to final stages of completion

Leadership ***Hall Council (President), UVM*** **9/2009- 5/2010**

- Organized on-campus community events, fundraisers, worked with sponsors and student budget

Peer Advising Board Member, UVM **9/2012- 1/2013**

- Facilitated meetings and worked to develop team building skills among fellow advisors
- Guide first year students within the College of Engineering and Mathematical Sciences (CEMS)