

SAMUEL STEPHEN HOLLAND

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EDUCATION

UNIVERSITY OF VERMONT, Burlington, VT

BS expected May 2013

Major: *Mechanical Engineering*

Minor: *Mathematics*

Language: *Intermediate proficiency in Spanish*

Relevant Courses: *Graphical Communication, Mechanics of Materials, Thermodynamics 1 & 2, Design Experience, Physics for Engineers 1 & 2, Statics, Calculus 1, 2 & 3, Materials Engineering, System Dynamics, Fluid Dynamics, Linear Algebra*

RELEVANT EXPERIENCE

Custom Machine, Woburn, MA

Summer-Spring 2010, 2011

Engineer/ Product Designer

- *Researched and designed a functioning fly fishing reel for consumer market*
- *Worked directly with client to meet desired product expectations*
- *Analyzed and reverse engineered competitors' products*
- *Researched alternative methods and materials for a synthetic disc drag system*
- *Created 3D models and 2D parts drawings for the manufacturing of five different sized fly reels in Solidworks*
- *Created instructions and inserts for final packaging*
- *Created photo-realistic computer renderings for advertising*

Kiva Systems, Woburn, Ma

Summer 2008, 2009, 2011

Engineering Intern

- *Designed automated battery discharging unit for field testing robotics*
- *Created collapsible ramp for loading and unloading robots*
- *Created prototype shelving units and sheet metal parts in Solidworks*

LEADERSHIP EXPERIENCE

President and Founder of Electric Vehicle Club, Winchester, MA.

(2008-2009)

- *Converted Saab to biodiesel*
- *Converted Chevy S10 to electric.*

The Cool Science Club and Camp (CSC), Winchester, MA.

Summers and after school (7 years)

- *Responsible for groups of elementary students, guided them through the day's activities*
- *Taught Lego Robotics and Mindstorms*
- *Organized recess activities*

PERSONAL EXPERIENCE

3D Printer and Rapid Prototyping: *Built 3D printer and started small business printing objects for friends and selling parts online. (2011)*

Shop Experience: *Proficient with band saw, table saw, Bridgeport, drill press, sanders, lathe, various hand tools.*

China: *Traveled to Beijing and Xian on a cultural exchange, taught English in a Middle School. (Summer '06, '07)*

Spain: *Foreign Language Exchange Program in Madrid. (Spring 2008)*

London: *School Humanities trip. (Spring 2009)*

Drummer: *Played in High School Jazz Band, and Marching Band and many student-led rock bands. Continued studies in College and am currently in a band. (2005-Present)*

REFERENCES AND SAMPLES OF CAD WORK FURNISHED UPON REQUEST