

Justin Reiter

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PERSONAL STATEMENT

Motivated mechanical engineer with a strong theoretical background complemented by foundation of hands-on experience and skills such as machining and SolidWorks modeling. Personable with a strong desire to learn and help change the world as part of a talented team in a fast-paced, challenging environment.

WORK EXPERIENCE

Radiator Labs, Brooklyn, NY

May-June 2014

Mechanical Engineering Intern

- Quantified air flow and heat loss for start-up's novel system of improving steam radiator performance
- Conducted experiments to verify and improve theoretical models and offer design recommendations
- Assembled, installed and maintained prototypes for use in pilot buildings

Fikst Product Development, Woburn, MA

July-December 2013

Mechanical Engineering Coop

- Involved in all stages of product development including brainstorming, design, fabrication and testing
- Extensive hands-on experience using CNC machine and other prototyping/fabrication equipment
- Designed and manipulated SolidWorks parts using advanced modeling and file organization techniques
- Learned valuable project management and decision-making skills in a fast-paced environment

Keurig, Inc., Reading, MA

July-December 2012

Co-op in Research and Innovation

- Conducted testing, acquired and analyzed data, and assisted group members with various projects
 - Developed new method of beverage evacuation from portion packs
 - Designed parts in SolidWorks for machining and injection molding manufacturing processes
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TECHNICAL SKILLS

Computer: MATLAB, ANSYS Fluent, SolidWorks, MasterCAM, Microsoft Excel, Word, PowerPoint

Hands-on: CNC/Manual Machine, Laser Cutter, FDM Printing, Woodworking Equipment, Drill Press, Soldering

EDUCATION

Northeastern University, Boston, MA

May 2015

Candidate for Bachelor and Master of Science in Mechanical Engineering

GPA: 3.98

Academic Projects

Master's Thesis: *Computational Fluid Dynamics Simulation of Microfluidic Flow for Nano-calorimetry*

- Simulate heat and mass transfer of reacting flows using ANSYS Fluent to aid calorimeter design

Capstone Project: *Miniature High-Temperature System for In-Situ Structural Mapping by X-Ray Spectroscopy*

- Designed and fabricated small-scale furnace capable of reaching 1100°C while enabling XRD imaging
- Developed thermal model of system used in design process and machined system components

Courses: Essentials of Fluid Dynamics, Computational Fluid Dynamics, General Thermodynamics, Heat Conduction and Thermal Radiation, Solar Thermal Engineering, Advanced Mechanics of Materials

BACKGROUND AND INTERESTS

- Over 400 hours of community service since freshman year with Boston Scholar Athlete Program, which provides tutoring and mentoring to inner-city student-athletes
- Volunteered with Let's Get Ready this summer to provide SAT math tutoring and guidance through college application process to high school students
- Avid reader and history enthusiast, particularly Civil War and World War II periods