

Elliott Spencer

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EDUCATION

George Fox University (GFU), Newberg, OR

Expected May 2017

Bachelor of Science in Engineering,
Concentration Mechanical Engineering
Minor in Mathematics

- **Technical Expertise:** SolidWorks, Numeca Computational Fluid Dynamics Software, Arduino and MATLAB Programming Languages, Microsoft Office Suite
- **Relevant Coursework:** Modern Manufacturing Techniques, Control Systems, Compressible Flow, Multiscale Modeling

RELEVANT EXPERIENCE

Senior Design Project, Burton Snowboards, Wilsonville,
OR **Designer - Snowboard Boot Testing Device**

September 2016 - Present

- Collaborate with a team of three other students to design, analyze, and build a testing device capable of quantifying the heat retention properties of snowboard boots
- Design and implement a temperature control system using Arduino hardware and programming language
- Created testing methods that ensured accurate and precise results
- Writing a comprehensive manual describing the design and proper testing procedure for the device

Boeing, Seattle, WA

Summer 2015

Manufacturing Engineering Intern

- Used MATLAB to analyze laboratory and flight test data for the commercial airplane testing program
- Supported the development and implementation of new production and tooling methods
- Gained knowledge of quality control and safety procedures relevant to the aircraft manufacturing process
- Utilized lean manufacturing principles and technologies to support business unit initiatives

Virginia Tech Air Quality Engineering Laboratory, Blacksburg, VA

Summer 2014

National Science Foundation Undergraduate Researcher

- Designed and conducted an experiment that analyzed particles produced by a new vacuum nozzle aerosolization technique.
- Wrote a clear and concise literature review, using scientific databases and EndNote referencing software, of various nanoparticle aerosolization techniques

LEADERSHIP EXPERIENCE

Residence Life (GFU), Newberg, OR

September 2013 - Present

Residence Assistant

- Assist students with their career aspirations and life-long learning goals through one-on-one consultations
- Perform resume reviews and helped students and alumni in all aspects of their job search
- Planned and coordinated weekly events in residence halls to foster community and relationship building
- Co-host the Couch Lecture Series with GFU faculty and staff

Trackers Earth Program, Portland, OR

August 2012 – August 2014

Canoeing Leader

- Oriented incoming freshman to the UVM community through a weeklong backcountry canoe trip
- Resolved issues that arose among participants and facilitated group camaraderie

PUBLICATIONS

- Professor, C., Spencer, E., Student, A. (2015) "A Cost-Effective Method of Aerosolizing Dry Powdered Nanoparticles." *Aerosol Science and Technology* **47**(11): 1267-1275.