

Geoffrey Odlum

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Current Address

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Permanent Address

5136 10th Rd N
Arlington, Virginia, 22205

Education **B.S. Mechanical Engineering**, May 2018, Virginia Tech, Blacksburg, Virginia, **GPA 3.63**

Experience **DuPont**, Process Control Engineer Co-op; Richmond, VA; August 2015 – January 2016

- Process Control Engineer co-op for Tyvek® manufacturing technical group;
- Assisted in design of new high-pressure steam safety interlock;
- Updated Control Concept Diagrams for Tyvek® manufacturing process;
- Updated Control Loop Sheet Diagrams to reflect changes in Distributed Control System programming;
- Gained competence reading and editing Piping & Instrumentation Diagrams;
- Drafted designs for more efficient Tyvek® sheet inspection stand.

Jacobs Engineering, Mechanical Engineering Intern; Arlington, VA; May 2015 – August 2015

- Intern in Jacobs Global Buildings North America (GBNA) mechanical department;
- Drafted building plans in AutoCAD, Revit, Bentley Microstation;
- Conducted Static Pressure Drop calculations for HVAC system designs;
- Analyzed office building air supply systems to ensure compliance with ASHRAE 62.1 / LEED standards;
- Created schedule sheets for mechanical equipment.

DuPont, Manufacturing Engineer Co-op; Richmond, VA; January 2015 – May 2015

- Manufacturing Technology Engineer co-op for Nomex® Paper technical group;
- Provided technical support to critical steps of paper-making process, including floc cutting, paper forming, and calendering;
- Investigated short-term production and defect issues through data collection and analysis;
- Conducted Quality Assurance testing of defects in laminate-grade papers;
- Assisted in development of more efficient dielectric QA test for electrical-grade papers.

Atmospheric Teaching Experiment Design Team (ATEx@VT), Co-Lead, Mechanical Lead; Fall 2013 – Present

- Ran weekly summer team meetings and set design goals for 2015-2016 school year;
- Designed weather balloon bus structure, remote cut-down system, insulation system;
- Presented at and co-authored paper for AIAA Student Conference, April 2014;
- Taught outreach curriculum to over 200 elementary school students.

Virginia Tech Center for the Enhancement of Engineering Diversity (CEED), Upper-class Mentor, Outreach Committee Member; August 2014 – December 2014

- Served as Residential Mentor for Galileo men's engineering community;
- Mentored six freshman engineering students over ten week fall semester period.

Technical Skills

Autodesk Inventor, Revit, AutoCAD	HVAC Design
Process Control / P&ID Documentation	Microsoft Office (Excel, PowerPoint, Word)
MATLAB, C / C++, Python	Amateur Radio Technician License
Rapid Prototyping, Laser Cutting, 3D Printing	Soldering, Circuit Design

Honors and Awards

Virginia Tech University Honors, Fall 2013 – Present
Dean's List, College of Engineering, Virginia Tech, 2013, 2014
Dean's Scholarship, College of Engineering, Virginia Tech, 2013 – Present
AIAA Region I Student Conference, 2nd Place for Outreach, Ithaca, NY, April 2014
Eagle Scout, Bronze Palm, Earned May 2010