

DEREK PHILLIPS

derek.j.phillips@vanderbilt.edu

(502) 319-0747

Linked  [linkedin.com/in/djphillips58](https://www.linkedin.com/in/djphillips58)

Current Address: PMB 354772, 2301 Vanderbilt Place, Nashville TN 37235

Permanent Address: 1802 Old Frankfort Rd, Lawrenceburg KY 40342

EDUCATION

Vanderbilt University School of Engineering – Nashville, TN	May 2017
<i>Bachelor of Engineering, Mechanical Engineering</i>	
Minor: Engineering Management	
Current GPA: 3.56/4.00	
Honors: Dean's List – Spring/Fall 2014, Spring 2015	
Western Hills High School – Frankfort, KY	June 2013
<i>High School Diploma</i>	
Honors: Graduated #1 in class of 175	

POSITIONS HELD

Smith Seckman Reid, Inc. – Nashville, TN	May – August 2015
<i>Mechanical Engineering Intern</i>	
<ul style="list-style-type: none">• Worked on the Detroit Event Center (Red Wings) and the Mission Bay Event Center (Golden State Warriors)• Revit by Autodesk: HVAC design (placing/tagging units & ductwork in a 3D architectural model)• Unit zoning and sizing, load estimation, space requirement determination, and scheduling using Excel and TRACE 700, according to LEED/ASHRAE standards• Automation of several company selection processes using Excel (V-lookups, pivot tables, if statements, conditional formatting, and more)	
Vanderbilt Solar Decathlon – Nashville, TN	August 2013 – February 2015
<i>President Elect - NOTE: This project was suspended in 2015 due to a lack of funding</i>	
<ul style="list-style-type: none">• One of 20 teams selected by the Department of Energy to build a 1,000 sf, net-zero, portable solar home• Directed a 124-person multidisciplinary team at Vanderbilt managing a one million dollar budget• Collaborated with leadership from Middle Tennessee State University and Habitat for Humanity Nashville• Planned, ran, and executed weekly general body meetings and board meetings, and provided weekly email updates for our 200 listserv subscribers	

CAMPUS INVOLVEMENT

Vanderbilt Design Studio: Mentor – hold a weekly shift, advising students on how to bring their ideas to life.	
Work with 3D Printers, drills, hacksaws, soldering irons, Dremels, etc.	2015 – Present
Vanderbilt Recreation Center: Work eight hours per week under federal work study	2015 – Present
Vanderbilt Aerospace Design Lab, NASA Student Launch Team: Field Engineer	2015 – Present
American Society of Mechanical Engineers: Secretary	2014 – Present
Vanderbilt Innovation and Entrepreneurship Society: Events Coordinator	2014 – Present
Vanderbilt Youth Encouragement Services: Volunteered weekly with inner city children ages 6-18	2014 – 2015
Vanderbilt Solar Decathlon: President	2013 – 2015
Vanderbilt Motorsports FSAE Team: Learned basic machining techniques & fiberglass fabrication	2013 – 2014

SKILLS/PROJECTS

- 3D & 2D CAD, parametric modeling with Creo, rapid prototyping
- Mathematical modeling and data analysis with MATLAB and Excel
- Instrument control and automation with National Instruments' LabVIEW
- Knowledge of statics, dynamics, thermodynamics, materials, fluids, systems, machine design, electric circuits
- Strong mechanical aptitude and spatial ability
- Organized, quick and eager to learn new tasks, punctual
- Refer to LinkedIn for class projects such as a technology strategy report for hydrophobic coatings and an automated pasta cooker, created using LabView and custom designed 3D-printed spools