

Andrew Martin

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EDUCATION

Vanderbilt University, Nashville, TN

Bachelor of Engineering, Mechanical Engineering

Minor: History

Cumulative GPA: 3.867/4.000

May 2016

Budapest University of Technology and Economics, Budapest, Hungary

Semester Abroad, Faculty of Mechanical Engineering

Jan. – May 2014

HONORS AND AWARDS

Engineering Dean's List (6 semesters)

Dec. 2012 – present

Lady Jean Tatum Honor Scholarship, Vanderbilt Engineering Scholarship

May 2013 – present

Dyer Family Foundation Scholarship, Vanderbilt Engineering Scholarship

Dec. 2012 – present

Spirit of Gold Marching Band Scholarship, Vanderbilt Scholarship

Dec. 2012 – present

WORK / VOLUNTEER EXPERIENCE

Product Development Intern, TE Connectivity, Winston-Salem, NC

May – Aug. 2015

- Redesigned an existing connector mounting clip for a new customer application with a volume of at least 200,000 units per year, while also improving the clip's holding strength and vibration dampening performance
- Developed and executed a series of tests and measurements to study the performance of different seal materials
- Contributed to other various projects by performing tolerance studies to control part design, evaluating test plan sequencing to improve effectiveness, and creating spreadsheet templates to better understand part inspection data

Mechanical Intern, Smith Seckman Reid, Inc., Nashville, TN

June – Aug. 2014

- Performed thorough calculations of buildings' heating and cooling loads and ventilation needs per industry (ASHRAE) standards, so that heating, ventilation, and air conditioning systems could be sized and selected
- Prepared final system plans and equipment schedules for issued drawing sets
- Participated in projects for prominent clients such as the Brooklyn Nets, Notre Dame University Football, United Bank of Switzerland AG, Nashville Sounds, and Vanderbilt University

CAMPUS ENGAGEMENT

Design for America, Vanderbilt University, Nashville, TN

Sept. 2012 – present

Project Team Leader & Leadership Team Member

- Led six-member Sustainability Team for two years, completing projects involving the prototyping and testing of devices to save water in the shower, coordination with administration to creatively reduce the energy to heat and cool campus buildings, and comparisons of various methods to engage students in a campus composting program
- Developed a solution to decrease energy use in dorm bathrooms and wrote a winning application to receive \$15,000 of funding from the Vanderbilt Green Fund to implement the solution
- Met weekly with leadership team to organize workshops, recruit new members, and handle administrative tasks

Vanderbilt University Bands

Aug. 2012 – present

- Performed with the Spirit of Gold Marching Band, Basketball Pep Band, and Community Concert Band

Men's Ultimate Frisbee Club Team

Sept. 2012 – present

Alternative Spring Break

Mar. 2013

SKILLS

Software: Mastery: Bluebeam Revu, LabVIEW, Mathematica, MATLAB, Microsoft Office, PTC Creo Parametric (Pro/ENGINEER), Revit, Simulink, SpaceClaim, Trace 700

Software: Competency: AutoCAD, Autodesk Moldflow, CSS coding, HTML coding, MicroStation, Python coding

Relevant courses: Creo Parametric Documentation and Detailing, Energetics Laboratory, Heat Transfer, Introduction to Robotics, Linear Algebra, Machine Analysis and Design, Manufacturing, Mechatronics, Polymer Materials Science