

Nicholas Abate

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Education

University of South Florida
Bachelor of Science in Mechanical Engineering
GPA: 4.00/4.00

Tampa, Florida
Expected May 2018

Work Experience

Cummins May 2017-August 2017

Fuel Injector Development Intern

- Designed fuel injector components to meet specified requirements
- Worked with other departments to have newly designed injectors tested and validated
- Helped lead a research and development project for a new nozzle design through several stages of early production

Collins Performance Technologies December 2015-August 2016

Engineer-Intern

- Designed engine and transmission components using Inventor and SolidWorks
- Machined and fabricated parts using hand and power tools, mills, and presses
- Gained an enhanced knowledge of internal combustion engines and power transmission systems
- Through my ability to manufacture parts and create new product designs, I helped increase company sales by 6% compared to the previous year

Salvo Technologies May 2016-July 2016

Designer-Intern

- Worked with design and manufacturing departments to develop new optical rails and scopes for firearms
- Generated 3D models and technical drawings of scope housings for manufacturing of parts

Extracurricular Activities

Society of Aeronautics and Rocketry September 2016-May 2017

Head of Mechanical Engineering

- Designed a rocket steering system for NASA Student Launch project
- Organized team workshops to introduce SolidWorks and MATLAB to team members
- Held weekly design meetings to solve any problems and ensure proper communication among members

Society of Automotive Engineers August 2013-May 2016

Vehicle Dynamics Team Member

- Designed suspension components using 3D modeling software
- Worked alongside peers of various subsystems to create quality parts and meet deadlines
- Involved in the assembly and disassembly of the car

iFixit Repair Guides October 2015

Author

- Wrote instructional guides to repair a Canon digital camera that has aided over 270 people
- Led my teammates effectively by keeping up to date on assignments and meeting all criteria
- Communicated well with the iFixit team to have our guides posted on their website

Field Related

- Certifications: CSWA Certification for Solidworks, MSSC Production Technician Certificate, MSSC Safety Certificate, MSSC Production and Maintenance Certificate
- Software Knowledge: LabVIEW, MATLAB, Ansys, Creo, Minitab
- Projects: Autonomous robot, tug of war machine, volleyball setter, 1JZ/2JZGTE engine builds, compressible fluid flow research paper