Arnold M. Schaefer

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EDUCATION

Florida State University, Tallahassee, Florida　　　　　　　　　　*August 2017 to May 2019*
Masters of Science, Mechanical Engineering　　　　　　　　　　　　**GPA: 4.00**

Florida State University, Tallahassee, Florida　　　　　　　　　　*August 2014 to May 2018*
Bachelors of Science, Mechanical Engineering　　　　　　　　　　　**GPA: 3.91**
Class Rank: 3 of 107 - *Summa Cum Laude*

INTERNSHIPS

Danfoss Turbocor, Tallahassee, Florida　　　　　　　　　　　　　*May 2017 to August 2017*
Aero-Thermal Engineering Intern

- Modeled compressor prototype assemblies in SpaceClaim and CATIA to be used for testing and feasibility analysis with CFD simulation.
- Developed a C++ algorithm to expand current test data contours for compressor performance in order to help identify performance characteristics in untested areas.
- Designed and tested new inlet guide vanes using CFD tools from ANSYS in order to increase compressor efficiency by ensuring that flow enters the compressor impeller at the correct angle.

ZF Powertrain Modules, Saltillo, Coahuila, MEX　　　　　　　　　*May 2016 to June 2016*
International Engineering Intern

- Utilized Value Stream Mapping tools to identify production line bottlenecks by determining hourly outputs, cycle times, and material/information flow.
- Worked in a task force consisting of German and Mexican engineers and toolmakers to discover and address production problems in the press shop to ensure parts were manufactured within specification.

PROJECTS

Senior Capstone Project　　　　　　　　　　　　　　　　　　　　*August 2017 to May 2018*

- Designed and constructed a robust camera monitoring system for compressor inlet guide vanes which met all project goals and was fully tested and validated.
- Acted as team leader to ensure all project deadlines were met, that there was constant communication with the project sponsor and that all team work was conducted in a timely and efficient manner.

Mechatronics Project　　　　　　　　　　　　　　　　　　*November 2017 to December 2017*

- Developed C algorithm to control home window shades automatically using a Dragon-12 board with DC motors, stepper motors and light sensors to regulate the light in the room and keep it constant.

TECHNICAL SKILLS AND CERTIFICATIONS

Software:	Microsoft Office Suite, MathCad, Pro-Engineer CREO, CATIA, Autodesk AutoCAD, Autodesk Inventor, Space Claim, ANSYS CFD Tools, ANSYS Workbench
Programming:	LaTeX, MATLAB, C++, Python, HTML and CSS
Languages:	Fluent German, Fluent English, Intermediate Spanish
Diplomas:	International Baccalaureate (IB) Diploma with Honors
Certifications:	Autodesk AutoCAD Certification (# 00110215)
	Autodesk Inventor Certification (# 00115889)