

W. ALEX NELSON

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EDUCATION

Texas A&M University, College Station, TX
Bachelor of Science in Mechanical Engineering
Cumulative GPR: 3.1

May 2017

TECHNICAL EXPERTISE

SolidWorks

Matlab

C++

Java

LabVIEW

C#

Javascript

HTML

WORK EXPERIENCE

Energy Systems Laboratory, College Station, TX

June 2015-Present

Student Technician (20 hours/week)

- Developed professional software distributed to dozens of clients across the country
- Created sorting algorithms for automated filtering and formatting of hundreds of millions of data points
- Analyzed trends for anomalies that are used to determine appropriate solutions
- Refactored existing code for substantial performance improvements
- Attended biweekly graduate seminars discussing enhancements in HVAC technology

Simply Electrical Solutions, Houston, TX

July 2014-August 2014

Technician (70-75 hours/week)

- Installed over 3000 new light fixtures in two different schools as a team
- Experienced firsthand how much a streamlined team with quality leadership can accomplish under strict time constraints

Xtra Light Manufacturing, Houston, TX

May 2013-July 2013

Intern (15 hours/week)

- Improved database and website code, shadowed audits and sales
- Created proposals and updated lighting databases

RELEVANT EXPERIENCE

Formula SAE (Texas A&M Chapter)

August 2014-Present

- Assisted the senior design team with their construction of the dynamometer chassis
- Learned to utilize the SolidWorks program to visualize and stress-test projects
- Operated heavy machinery in our workshop to construct designs
- Completed safety training for the use of workshop machines

National Aggie Scholar Ambassadors

September 2013-Present

- Mentored two freshmen to ease their transition into college
- Helped recruit incoming freshmen by planning and organizing social events and general meetings

Champe Fitzhugh Honors Leadership Seminar, Tuscany, Italy

July 2013-August 2013

- Selected as one of thirty students in the class of 2017 for leadership training in Tuscan Italy
- Attended several leadership workshops that worked to improve our leadership skills in ways we may not have experienced before