JUSTIN LEWIS

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WORK EXPERIENCE

ELECTRICAL ENGINEERING INTERN APPLIED RESEARCH LABORATORIES
SUMMER 2016

- Work Field: Submersible research and SONAR systems
- Summer project: passive tracking of Unmanned Underwater Vehicles (UUVs)
  - Mulitlateration (MLAT) tracking
  - MATLAB and C++ code development
- Role:
  - Algorithmic development
  - Signal processing
  - Mathematical modeling

ELECTRICAL ENGINEERING INTERN ENOVATION CONTROLS, INC.
SUMMER 2015

- Work Field: Engine control systems manufacturing
- Summer project: LabView code development for manufacturing engineering
  - Optimized manufacturing testing
  - Exposed to engine control processes
  - Exposed to LEAN manufacturing
- Role:
  - Rapid software development
  - Troubleshooting expertise

ELECTRICAL ENGINEERING INTERN HDR, INC.
SUMMER 2014

- Work Field: Power distribution and architectural drafting
- Role:
  - Supported AutoCAD drafting
  - Developed power calculation reports
  - Constructed photometric models.

EDUCATION

TEXAS A&M UNIVERSITY, COLLEGE STATION
B.S. ELECTRICAL ENGINEERING (MAY 2017)

GPA: 3.96

HONORS & DISTINCTIONS

National Merit Finalist
Craig and Galen Brown Scholarship Recipient
Presidentôs Endowed Scholarship Recipient
Electrical Engineering Scholarship Recipient
Enrolled in the Engineering Honors Program

SKILLS & ABILITIES

Languages: Matlab, C++, Python, LabView , Processing , Verilog, Java, SQL
Software: AutoCAD, PSpice Adobe Flash Developer, Adobe Photoshop
Mechanical aptitude: hand tools, power tools, welding, soldering, etc.

RELEVANT COURSES

Fall 2016: Digital Image Processing, Biosensors, Digital Communications

Spring 2016: DSP, Digital Integrated Circuit Design, Computer Architecture, Ultrasound Imaging

Fall 2015: Random Signals and Systems, Linear Control Systems, Applied Electromagnetics, Cryptography and Applied Mathematics

Spring 2015: Electronics, Digital Systems and Logic, Systems and Signals, Electric Properties of Materials

Fall 2014: Electrical Circuit Analysis, Differential Equations, Linear Algebra and Topics in Applied Mathematics

ACTIVITIES / ASSOCIATIONS

UNDERGRADUATE RESEARCH

SPRING 2015-PRESENT

Through undergraduate research, I have gained experience in multi-disciplinary projects such as a project to develop a low-cost, multi-functional medical device for use in third world countries. The chance to work on such a project proved to be very exciting and interesting. I worked with fellow students designing PCB layouts as well as troubleshooting their prototype circuits. Currently, I am working in the field of data science under a professor at Texas A&M. This involves simulation and analysis using python and applied probability / statistical methods.

ENGINEERS WITHOUT BORDERS

FALL 2013-PRESENT

Within the organization I am a project leader and have guided fellow members in many different projects. For example, we designed and constructed a wheelchair ramp for an elderly woman in Bryan. This project proved difficult and required us to meet ADA standards. Overall, my help with the project was crucial in the final stages of its life. Currently, I am heading a project to optimize a lighting system on campus which employs the use of solar panels.

HACKATHONS

SUMMER 2016-PRESENT

Recently engaged in rapid product and idea development through hackathon contests. Projects related to sustainability and health monitoring. Hackathons attended:

- *"/hack"* through *HackerEarth* - San Fransisco, CA

MUSIC ENSEMBLE

SPRING 2016-PRESENT

In my free time I play guitar and sing within a group in College Station. We play popular folk music in the Bryan area.