Zackary Minshew

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OBJECTIVE

To obtain an engineering position where I can continue to strengthen my problem-solving, analytical, communication, and detail-oriented skills to improve services and products, reduce costs and lead times; all while engaging in new challenges and learning experiences.

EDUCATION

Georgia Southern University
Bachelor of Science in Electrical Engineering | Graduation Date: May 2020

TECHNICAL SKILLS & LANGUAGES

- Combustion Control Systems
- Hydraulic Control Systems
- Troubleshooting and Maintenance
- Safety Circuit Design
- Technical Documentation
- Power Distribution Systems
- AutoCAD
- MATLAB (Deep Learning Toolbox)
- RA FactoryTalk View Studio (SE & ME)
- RA Studio 5000 (ST, LD, FBD)
- Crimson
- Arduino/C++

PROFESSIONAL EXPERIENCE

Arconic Engines | Midway, GA **May 2018 - Present**
Process Controls Engineer Intern
I have been able to apply some concepts learned in class and labs to resolve real life maintenance reliability issues & provide consistent controls support within the maintenance group to repair down equipment. Within my tenure at Arconic, I have been responsible for 8 reliability/maintenance projects that total up to $165,942.

Completed Projects:

- Designed and built the control panel for a fan cooling station.
- Designed and implemented a human machine interface (HMI) program for the status monitoring of the hydraulic system.
- Increased the reliability of two furnaces by implementing the use of VFDs for the cart drive.
- Reduced repair cost on a tooling furnace by installing sensors at the door for interior protection.
- Designed HMI programs to create a more "visual" manufacturing facility.
- Integration of "Fan-Cool Station" controls into the "Box Furnace 3" control system.

Current Projects:

- Designing, implementing, and programming a control system upgrade for a tooling furnace.
- Programming a control system upgrade for the 5,000-ton and 33,000-ton closed-die forging presses.

B-Way Corporation | Homerville, GA **January 2018 - May 2018**
Electrical Engineer Intern
Completed a spring internship at the most efficient and productive site of a container manufacturing company. Worked alongside Senior Electrical Engineer to design operational and safety circuits for new equipment.

- Created electrical controls drawings in AutoCAD for two new productions line projects.
- Involved in individual and team troubleshooting experiences.

CVS pharmacy | Statesboro, GA **December 2015 - July 2018**
Certified Pharmacy Technician

- Correctly calculated dosages, prepared prescription labels, and filled prescriptions for pharmacist approval.
- Assisted with the inventory management of medication and records.
- Worked diligently to provide quality customer service within a high-volume retail setting.

ADDITIONAL PROJECT EXPERIENCE

ECE Research | Georgia Southern University **September 2018 - Present**
ANN Gesture Classification using sEMG Signals

- Used the MYO armband to acquire sEMG signals and created a pattern recognition Artificial Neural Network (ANN) in MATLAB.
- Created a user-friendly GUI in MATLAB to allow for the easier manipulation of data collection, neural network parameters, and real-time viewing of data and classified outputs.