David Ajibade

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EDUCATION

Drexel University Philadelphia, PA
B.S Electrical Engineering (Minor in Psychology) Anticipated Graduation: June 2022

SKILLS

Technical: Python, C#, C++, JavaScript, Git, GitHub, MATLAB, LabVIEW, HTML, CSS, ArcGIS, Microsoft Excel, Microsoft PowerPoint, Embedded Systems programming, Arduino, microcontrollers, debugging
Others: GitHub, Adobe creative suite, DMMs, Oscilloscope

EXPERIENCE

PECO, an Exelon Company Philadelphia PA
Co-op, Advanced Meter Infrastructure May 2020 – September 2020

- Collaborated with colleagues to work on multiple GIS tasks using ArcGIS to monitor meter populations
- Created a reporting system using python and data analysis packages to detect faulty meters within PECO's customer base
- Briefed supervisors and colleagues on the progress of ongoing projects during the department meetings

PJM Interconnection LLC Audubon PA
Co-op, System Operator Training April 2019 – September 2019

- Updated training spreadsheets after operators completed simulation sessions
- Monitored system restoration simulation computers to ensure they were in peak performance state in preparation for simulation sessions
- Shadowed the reliability engineering group as well as other departments in PJM

PROJECTS

LBPAlert, An Injury Prediction Device (Senior Capstone Project) September 2021 – June 2022
Hardware Design Lead

- Kept track of bill of materials needed for various hardware components while sticking to the proposed budget
- Ensured the program being developed by the firmware design lead matched hardware specifications
- Deployed a ESP32 microcontroller to power four (4) sEMG sensors and an IMU to receive muscle data from the user's body
- Reported progress to the team lead and project advisors

Electric Vehicle Test Bed January 2021 – March 2021

- Created a small-scale working prototype of an electric vehicle using Arduino and its kit components (sensors and electric circuit components)
- Conducted repeated tests on the sensors used (ultrasonic, photoresistor, temperature and water) to reduce the possibility of error during runs
- Devised a graphic user interface (GUI) that mimics a vehicle's dashboard to create a more user-friendly experience
- Generated and presented weekly lab reports while adhering to IEEE standards for technical reporting

System Restoration Simulation July 2019 – July 2019

- Shadowed a generation dispatcher during the blackout system restoration drill
- Operated the blackout restoration simulator within the energy management system (EMS)
- Balanced load and generation by maintaining the 60Hz operational limit to avoid line trips and power outages

ACTIVITIES AND ORGANIZATIONS

Vice president, Innovative Drexel Entrepreneurship Association September 2020 – July 2021
Member, National Society of Black Engineers September 2017 – Present
Member, Institute of Electrical and Electronic Engineers (Drexel IEEE) September 2018 – Present