

OLUTOLA MOYINOLUWA IREANUOLUWA

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SUMMARY

Highly skilled and technically proficient Electrical Engineering graduate with a strong enthusiasm for Artificial Intelligence, Automation, and Control Systems. Strong background in the design and implementation of embedded systems for IoT applications. Seeking Co-op for Spring 2024 and a Summer 2024 internship opportunity.

EDUCATION

MSc Robotics and Autonomous Systems (Electrical Engineering) Graduating Dec 2024
Arizona State University, Tempe, AZ GPA 3.90
Relevant Coursework: Computer Control Systems, Engineering Computing with Python, Machine Learning Basics with Deployment to FPGAs, Linear System Theory

B.Eng., Electrical and Electronics Engineering; Graduated Sept 2021
Covenant University, Ota, Nigeria 4.61/5.0 GPA
Relevant Coursework: Power Electronics, Control Engineering, Advanced Instrumentations, Digital Control Systems, Applied Electronics, Software Development Techniques, Industrial Electronics, Computer Organization and Architecture

TECHNICAL SKILLS

Programming: Python, C, C++, MATLAB, VHDL, Verilog, Excel VBA, SQL, Bash Scripting.

Productivity Tools: Excel, Word, PowerPoint, Project.

Libraries/Frameworks: Tensor Flow Pandas, Django, NumPy, PyTorch, Seaborn, Scikit-learn, Matplotlib, Selenium, Xlsx Writer, OpenCV.

Electronic/Hardware Design Tools: AutoCAD, Proteus Professional, Fritzing, Quartus Prime, Simulink.

Certifications/Specializations: Google IT Automation with Python (Coursera), Diploma in Leadership Development (Covenant University), IBM AI Engineering (Coursera). Project Management Principles and Practices, Machine Learning Engineering for Production (MLOps), IBM Data Science, IBM Applied AI, IBM Machine Learning. Google IT Automation with Python. Introduction to the Internet of Things and Embedded Systems.

PROFESSIONAL EXPERIENCE

Huawei Technologies Limited, Lagos, Nigeria: Software Engineer Intern Jan 2022 – Nov 2022

- Developed and deployed Python scripts, mainly with Selenium and VBA frameworks, to automate report generation for two clients, saving an estimated 3 hours of manual effort per report cycle.
- Collaborated with cross-functional teams to optimize user interfaces and develop full-stack dashboard solutions by employing JavaScript and CSS for three clients (TMCCell, MTN, and Airtel), improving data visualization and user experience.
- Improved system stability, performance, and user experience by debugging and implementing new platform solution designs.
- Designed and managed large databases using SQL and MySQL, facilitating efficient data storage and retrieval to improve the functionality of the existing and designed dashboards.
- Led the subdomain team for two months during the leader's absence, adeptly managing team tasks and ensuring seamless operations.

Trexm Oil and Gas Services Limited, Delta, Nigeria: Engineering Intern Aug 2020 – Dec 2020

- Facilitated streamlined project execution and adherence to timelines by providing engineering support through checklists, site visit reports, project schedules, and work breakdown structure.
- Participated in the engineering design and installation of an automatic tank gauging system, substantially improving data collection efficiency and accurate inventory management at First Hydrocarbon Nigeria (FHN) Limited.
- Analyzed generator power supply capacity, confirming compatibility and fitness for commissioning, resulting in a successful pump installation and startup for the OML 26 flow station.
- Enabled informed choices and drove successful outcomes by researching and gathering relevant data to support project decision-making processes.
- Assisted with developing templates and guidelines for technical and commercial documents as needed based on client requests.

ACADEMIC PROJECTS

Advanced Control Systems and Experimental Analysis

Spring 2023

Engaged in a series of experiments within control systems and gained valuable insights into designing, modeling, and analyzing control solutions for real-world applications.

- Used Arduino to transmit and receive data using UART communication and ADC/DAC, demonstrating the capabilities of embedded boards for control systems applications.
- Developed a simplified car model for cruise control, considering factors such as friction, wind resistance, and engine dynamics, demonstrating the use of control systems to design and implement complex systems.
- Developed a nonlinear model for liquid level control in a cylindrical container, demonstrating the use of control systems to model complex systems.
- Performed system identification experiments to obtain a linear model of the swinging pendulum plant.

Sentiment Analysis Dashboard

Spring 2023

Developed a sentiment analysis dashboard using Streamlit and pre-trained NLP models like DistilBERT to analyze customer reviews and predict sentiment.

- Evaluated different machine-learning techniques for sentiment analysis.
- Employed various NLP techniques and machine learning models to classify text as positive or negative sentiment.
- Deployed the sentiment analysis model and visualizations using Streamlit for user-friendly interaction and presentation.

Development of a Smart Cost-Effective Water Management System

August 2021

Designed and implemented a comprehensive water management system using Arduino Mega and IoT technology.

- Utilized various sensors, including pH, temperature, turbidity, ultrasonic, and flow meter, to monitor key water parameters in real-time.
- Developed code for sensor integration and data processing, ensuring accurate measurement and analysis of water quality.
- Implemented a user-controllable switch on the Cayenne dashboard to enable manual submersible pump control.
- Incorporated an ESP8266 Wi-Fi module for seamless data transmission to the Cayenne IoT dashboard, enabling remote monitoring and control.

LEADERSHIP AND ACTIVITIES

Tools Automation, Huawei Technologies, Lagos Nigeria: Subdomain Leader

April 2022 – Aug 2022

- Led the subdomain team during the leader's absence, managing team tasks and ensuring seamless operation.
- Assisted in developing training materials and conducted training sessions for new team members, ensuring a smooth onboarding process.

Association of Electrical Information Engineering Student, Covenant University: Member

Jan 2019 – Sept 2021

- Collaborated with fellow students to organize and engage in various technical workshops, seminars, and events focused on emerging trends in engineering.
- Participated in the Student Work Experience Program (SWEP) hosted by the university and the association, applying classroom learning practically for skill development.