Adedolapo Adegboye (Ade), E.I.T.

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Calgary, Alberta

Summary

Electrical Engineer-in-training with two years of work experience designing, maintaining and supporting Internet of things (IoT) sensors. Responsible for complete lifetime ownership of IoT sensors across different verticals such as smart agriculture, asset tracking, and smart cities.

Social Profiles

- Website: https://www.adedolapo.info
- LinkedIn: https://www.linkedin.com/in/adegboyeadedolapo
- Github: https://www.github.com/adedolapoadegboye

Technical Skills

- Programming Languages: Python, MATLAB, SIMULINK, JavaScript, HTML, CSS
- Tools: MS Office, Jira, Confluence, Github, Jlink, Visual Studio Code, STLink, PyCharm
- IoT Platforms: AWS IoT, Azure IoT Hub, Thingsboard, Tago, Ericsson IoT Accelerator, Telit IoT Portal.
- Technologies: LoRaWAN, NB-IoT, LwM2M, MQTT, HTTP, BLE, GNSS.

Experience

IoT Systems Engineer-in-Training

Tektelic Communications Inc. • Calgary, Alberta
11/2021 - Present

- Developed test plans and performed thorough system-level verification tests on sensors, identifying bugs and design quality issues, and reporting them in a timely and clearly-defined manner
- Conducted radio, safety and electromagnetic emissions regulatory tests on sensors according to regulatory bodies' specifications such as FCC, IC, ETSI, CSA/UL etc.
- Created well-written and easy-to-understand internal and field-facing technical and non-technical product documentations leading to reduction in documentation-related tickets from customers by 40% in the year 2022
- Supported mass production of sensors at production plant, defining factory test plans aimed at catching manufacturing defects.
- Resolved 90% of sensor issues escalated by the client support team within first three working days.

IT Technician Intern

Calgary Parking Authority • Calgary, Alberta
05/2021 - 10/2021

- Resolved hardware/software tickets with an average ticket resolution rate of 85% within the first 3 days
- Collaborated with other team members in the configuration and maintenance of the Milestone surveillance camera system for the new 9th Avenue parkade (also known as platform parkade) in Calgary

Electrical Engineering Intern

Calta PowerTech • Calgary, Alberta
05/2021 - 08/2021

- Developed and maintained an automation and simulation program using MATLAB/SIMULINK to analyze the effects of Flash-lightning on Power transmission lines
- Created project documentations for new projects and updated existing documentations

Education

Master of Engineering, Electrical and Computer Engineering

University of Calgary • Calgary, Alberta
05/2022
CGPA: 3.94/4.00 || Volunteer Activities: Lead Commissioner at Schulich Ignite Student Club. Student member, Engineers without Borders || [Transcript](#)

Bachelor of Engineering, Electrical and Computer Engineering

Kwara State University • Malete, Kwara
06/2018
CGPA: 3.63/4.00 || Volunteer Activity: Head Coach, Engineering Men Soccer Team || [Transcript](#)

Capstone Project
- Research Paper on Implementation of Powerline Communication in Nigeria

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Projects

Graduate School Projects

- Design and development of a Garbage Classification system using Convolutional Neural Network built with TensorFlow on Python
- Design and development of a U-net model for image restoration after lossy JPEG compression
- Design and development of an auto-encoder model for denoising noisy images
- Creation of synthetic images of digits from random noise inputs using Generative Adversarial Networks (GAN)
- Development of an Age Estimator model using facial images on MATLAB
- Design of an Adaptive Linear Filter based on Least Mean Square Algorithm for the equalization of linear dispersive channels with white noise using SIMULINK
- Research paper on Pseudo-random and Quasi-random Number Algorithms in Cryptography
- Research paper on Fiber Bragg Gratings in Optical Engineering
- Development of full project plan for the construction of the new Walterdale Bridge over North Saskatchewan River in Edmonton

Personal Projects
- Design and development of a responsive personal website using HTML, CSS and Javascript
- End-to-End integration of an IoT weather station sensor to provide hourly live weather reports for Northern Calgary
- Design and development of a weather station desktop app for the IoT weather sensor in the project described above using Tkinter on Python

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Certificates

Microsoft Azure AI Fundamentals Certification, FUSION Skill Development Program Certification

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Professional Associations

- Engineer in Training, Association of Professional Engineers and Geoscientists in Alberta (APEGA)
- Graduate Member, Institute of Electrical and Electronics Engineers (IEEE)