NATHNAEL T. GHEBREHIWET

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Summary of Qualifications

- Circuit design and diagnostics (NI Multisim, Fusion 360, Fritzing).
- Demonstrated knowledge of working with Microprocessor Systems, Embedded Devices, and Wireless Sensor Networks.
- Basic to intermediate knowledge of various industry level EE software (NI Multisim, Cadence, LabVIEW, Simulink, ETAP).
- Knowledge of multiple programming languages (Java, Python, C, C++, Swift, MATLAB).
- Worked in Android/iOS/web-app development projects which incorporates basic knowledge of databases.
- Well-versed in using Microsoft Office suite (Word, Excel, PowerPoint in particular).

Professional Experience

Khalifa University   **Abu Dhabi, UAE**
Graduate Research Assistant   August 2021 to December 2021

- Presented a novel method that could reduce package delivery times by up to 60% using en-route UAV operations.
- Rectified a deep neural network to help improve tissue classification in cancer histology research using whole slide images.

Khalifa University   **Abu Dhabi, UAE**
Undergraduate Research Assistant   January 2020 to December 2020

- Designed a personalized, low cost BFR device prototype with 60-80% cost reduction compared to market (filing for patent).
- Proposed a single unit circuit design schematics, taking into account the system's power (battery) requirements.

Schneider Electric   **Dubai, UAE**
Supply Chain Intern   June 2020 to September 2020

- Worked with HS code alignment to facilitate smooth customs clearance during regional transportation of logistics.
- Developed a real time ocean and air rates support tool for estimating the costs of transportation.

UREKA Education Group   **London, UK**
Global Trainee – Data Science *(remote)*   June 2020 to August 2020

- Developed a mini web-app tag-recommendation tool and deployed it to the cloud (data extracted from StackExchange).
- Built a machine learning model that can identify and rank hot topics using NLP techniques on AirBnb dataset.

Khalifa University   **Abu Dhabi, UAE**
Student Library Assistant   November 2018 to March 2020

- Search standard reference materials, including on-line sources and the Internet, answer patrons' reference questions.
- Organize collections of books, publications, documents, audiovisual aids, and other reference materials for convenient access.

Volunteer and Leadership Experience

- Abu Dhabi Technology Committee—worked as a science communicator at ADSF, November 2017–December 2017.
- Khalifa University—organized annual on campus international day events, February 2017–February 2019.
- Emirates Foundation for Youth Development—member basic disaster/emergency response team, 2017-2019

Education

Khalifa University (Abu Dhabi, UAE)   Eritrea Institute of Technology (Mai-Nefhi, Eritrea)
BSc in Electrical & Electronic Engineering, June 2021   Earned 35 credits toward a Bachelor of Engineering degree
Excellent with Honor

Professional Memberships and Affiliations

Institute of Electrical and Electronics Engineers (IEEE)
Golden Key Honor Society