

Mohammed Tanner

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Education

Northeastern University, Boston, MA

May 2023

B.S. in Computer Engineering

Awards: Torch Scholarship, AJC Merit Research Scholarship

Relevant Courses: Software Engineering, Fundamental Engineering Algorithms, Embedded Systems, Database Design, Hardware-Software FPGA Design, Electrical and Computer Engineering Capstone, Fundamentals of Electronics, Digital Design & Computer Organization

Skills

Programming: Python, C++, HTML, CSS, SQL, Verilog, Vivado, Xilinx Vitis, Assembly, Arduino, MATLAB, Simulink

Version Control: Git, Github

Cloud Systems: AWS IoT, AWS RDS

Certificates: Web Design (American Graphics Institute), Visual Media Design (CapeCod CC)

Languages: Fluent in Arabic

Work Experience

Lowell Public Schools, Lowell, MA

Sept 2023 – Current

Substitute Teacher

- Implemented lesson plans provided by absent teachers, ensuring continuity in students' learning experiences
- Demonstrated flexibility and versatility by teaching various subjects and grade levels as needed

Sentry Lab, Northeastern University, Boston, MA, Remote

Aug 2022 – Dec 2022

Software Engineer

- Conducted research on cutting-edge project focused on millimeter-wave radar imaging and threat identification using a portal-based system
- Designed a graphical user interface in Python that assisted in the material characterization algorithm, in turn improving accuracy by 74% and decreasing time needed for anomaly extent selection
- Assisted graduate students in developing and testing physics-based imaging algorithms, contributing to the advancement of threat detection techniques
- Demonstrated excellent verbal and written communication skills through regular reporting and presentation of findings to the research leadership and the Department of Defense

Insulet Corporation, Acton, MA

Aug 2021 – Dec 2021

Lifecycle Engineer, Medical Devices

- Developed design and testing documentation using notes of former engineer, creating user manuals for a power analyzer the company needed to leverage
- Assisted in development of voltage level shifter board, utilizing PSpice, enabling cross device communication
- Facilitated various R&D projects in an agile environment with cross-functional teams relating to root cause analysis and new device development utilizing multimeters and general lab equipment

Projects

FarmAssist Indoor Growing System

Dec 2022 – April 2023

- Utilized engineering principles to create FarmAssist, which aims to create a home agriculture system that grows fresh, nutrient-rich food, is accessible to most people suffering in food deserts, and promotes a community around growing and supporting each other
- Developed a website using Python and the Django framework to facilitate the community building aspect where people can monitor their system's metrics, create, comment, and post community events
- Designed MySQL database hosted on AWS to support website functionalities