Samuel Taylor

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A software engineer with experience in embedded systems and data science

EXPERIENCE

Acorn Web Consultants, NM, USA— *Software Engineer*

Oct. 2023 - Present

Working on multiple client tech stacks to provide the results requested by the team. Utilizing docker and Gitlab for testing database environments and source control. Most recent Tech stack: TS React- web, ReactNative-mobile, nodeJS TS-Backend

Pavilion Renewables, Manama, Bahrain— *Software Engineer*

Dec. 2021 - Apr. 2023

Thrived and grew in a fast-paced startup environment. Performed analysis and provided feedback, resulting in an average 30% increase in solar panels' energy output. Developed new data pipelines for the R&D Team to collect data and display from Siemens PLCs

University of Bristol, Bristol, UK— *Teaching/Research Lab Assistant*

Oct. 2018 - Mar. 2021

Taught complex topics on FPGA using VHDL coding and Embedded and Real-Time Systems on simple robots. Aided in developing and testing autonomous driving technologies using robotic vehicles and created an arena for testing the cars for analyzing sensor arrays.

EDUCATION

University of Bristol, Bristol, UK— *Masters*

Sept. 2017 - July 2021

MEng Electrical and Electronic Engineering.

Massachusetts Institute of Technology, USA— *Certificate*

Jan. 2023 - May 2023

MIT Data Science And Machine Learning: Making Data-Driven Decisions

PROJECTS

Robotic Rubik's Cube Solver— *Electrical/Software*

A single-button autonomous solver transmits commands to the motors via a 3.5 mm audio jack. GitHub: https://github.com/dyslexicoding/Rubiks-Cube-Project

SAR Images Statistical Modeling— *Electrical*

Masters Thesis and surrounding Literature Github:https://github.com/dyslexicoding/Masters-Thesis

SKILLS

Python, TypeScript, Rust, SQL, JavaScript, VHDL, C++, MATLAB, Docker, PostgreSQL, MongoDB, GIT, GitHub Copilot, Linux, AWS, TensorFlow, React, react native, GraphQL, NodeJS, CI/CD, NestJS, Firebase, Stripe, android Studio

LANGUAGES

English