Samuel Taylor

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🎓 Education

University of Bristol   2017 – 2021

Masters in Electrical and Electronic Engineering with focus on Embedded Systems   *Bristol, UK*

> Grade: 2:1

MIT   2023 – 2023

DATA SCIENCE AND MACHINE LEARNING: MAKING DATA-DRIVEN DECISIONS   *USA*

* *Certificate in Data Science*

📊 Experience

Pavilion Renewables   Dec. 2021 – Apr. 2023

Software Engineer   *Manama, Bahrain*

· Thrived and grew in the fast-paced Startup environment

· Performed analysis and provided feedback resulting in average 60% increase solar panels energy output

· Developed new data pipelines for R&D Team to collect data and display from Siemens PLCs

University of Bristol   Oct. 2018 – Mar. 2021

Teaching/Outreach Assistant   *Bristol, UK*

· Taught complex topics on FPGA using VHDL coding and Embedded and Real-Time Systems on simple robots

· Lead many teams of University students to teach in schools on Engineering related topics

· Provided support with student projects with online techniques in a Covid environment

Communication Systems & Network Group (CSN) Lab at UOB   July. 2019 – Sept. 2019

Research Lab Assistant   *Brsitol, UK*

· Aided in the development and testing of autonomous driving technologies using robotic vehicles

· Created arena for testing the cars for analysing sensor array

· Provided support to PHD staff

🧪 Projects

Rubik's Cube Solver with Audio Cable

· A single button autonomous solver transmitting commands to the motors, via 3.5 mm audio jack. Git: *Rubik's Cube Project*

SAR Images Statistical Modeling

· Models to validate a Simulator built by Dr. Robert Piechocki that would generate SAR image's recreations of sea surface waves.

⚙ Skills

Tools/Languages Python, TypeScript, SQL, VHDL, C++, MATLAB, MS Excel, Statistics/ML: Hypothesis testing, EDA, Linear/Logistic Regression, Decision Trees, Bagging and Boosting, Clustering, Natural Language Processing, Deep Learning: ANN, CNN, RNN, LSTM

Technologies TensorFlow, React, Visual Studio, PostgreSQL, MongoDB, MySQL, FPGA, GIT