

Samuel White

Belfast, UK | **DOB:** 08-12-2001 | **Phone:** 07943 010484

Embedded Systems & Test Engineer

LinkedIn: [account](#) | **Email:** swhite26@qub.ac.uk

Skills

Python | Selenium | Robot Framework | C | Jira | Linux | Pandas | Keras | SQL | Data Analytics | Time Series Forecasting | Git | Github | VS Code | Automated Testing | LaTeX

Education

Queen's University Belfast | BEng

Belfast, UK | Sept 2020 - July 2023

First Class Honours in Electrical & Electronic Engineering

Excellent performance in:

- Embedded Systems: 76%
- Mathematics: 86%
- Computer Programming: 86% (C++)

Completed Harvard CS50x Course

- Developed further knowledge of C and fundamental computer programming principles.

Experience

GE Vernova | Embedded Systems & Test Engineer Intern

Lisburn, UK | July 2024 - Present

- Developed automated test scripts using Selenium and Robot Framework for a range of embedded systems, ensuring high reliability and performance.
- Integrated automated tests into a CI/CD pipeline, enabling continuous testing and faster feedback cycles.
- Collaborated within an agile framework, leading stand-ups and organising sprint planning.

Mercia Power Response | Data & Electrical Engineer Intern

Nottingham, UK | April 2024 - July 2024

- Collaborated with the Head of Data to develop and implement a comprehensive data strategy and presented the strategy to the board of directors.
- Deployed a Linux server with a Python script running on a cron job to ETL data from an SFTP server into an SQL database, streamlining data integration processes..
- Developed a technical specification for the automated marginal cost calculation project.
- Integrated real-time commodity pricing data into the marginal cost calculator via a WebSocket API, resulting in a ~10% increase in site operational efficiency.
- Utilised GitHub for version control and collaborated within an Agile framework, ensuring efficient project management and delivery.

White Garms | Founder

Belfast, UK | June 2019 - March 2024

- Founded White Garms, an online vintage clothing retailer, whilst studying for my bachelors degree, highlighting effective time management and entrepreneurial skills.

- **Achieved YoY sales growth of 40%**, resulting in revenues in excess of £90,000 in 2023.

Lisburn Tutoring Centre | Maths & Physics Tutor

Lisburn, UK | Jan 2024 - March 2024

- Distilled complex mathematical and physical concepts into clear, understandable explanations for GCSE and A Level students.
- Adapted communication style to meet diverse learning needs of students, fostering a conducive learning environment.

Projects

Data Analytics & Machine Learning for Forecasting Macroeconomic Trends

- Implemented regression models (ARIMA, ARIMAX, SARIMAX) in Python and benchmarked their performance against a Long Short-Term Memory (LSTM) recurrent neural network.
- Developed a robust **data pipeline** for pre-processing large economic datasets.
- Conducted feature engineering, such as hyperparameter tuning and including exogenous variables, to optimise model performance and generalisation to unseen data.
- Presented research findings to academic peers and faculty lecturers, demonstrating the practical application of regression and ML models in economic forecasting.