

# Samuel White

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

Graduate Electrical & Electronic Engineer

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## Skills

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Python | Data Analytics | Time Series Forecasting | C / C++ | SQL | Simulink | Pandas | NumPy | Keras | Machine Learning | PowerBI | PowerFactory Digsilent | Xero

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## Education

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**Queen's University Belfast** | BEng

*Belfast, UK | Sept 2020-June 2023*

**First Class Honours** in Electrical & Electronic Engineering

Excellent performance in:

- Embedded Systems: 76%
- Power Electronics & Motor Drives: 79% - experience simulating power converters & inverters in matlab simulink
- Electrical Power & Energy: 79% - experience using Powerfactory for steady-state and transient stability studies.
- Computer Programming: 86% - Programming in C / C++

Completed Harvard CS50x Course

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

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## Experience

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**Mercia Power Response** | Electrical Engineer Intern

*Nottingham, UK | March 2024 - June 2024*

- Gained in-depth knowledge and hands on experience in operating and programming SCADA systems for gas gensets.
- Performed data analysis on genset data in Python, utilising Pandas and NumPy for statistical analysis, predictive modelling, and machine learning application.
- Developed visually engaging dashboards and reports using PowerBI to effectively communicate critical information to stakeholders.
- Regularly presented analysed data to senior colleagues, aligning results with key performance indicators (KPIs) to provide a clear and concise overview of site performance.

**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 skills.
- Demonstrated financial acumen through successful management of the business, encompassing budgeting, financial forecasting, expense tracking, and profit optimisation strategies.
- **Achieved YoY sales growth of 40%**, resulting in a turnover in excess of £85,000 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.
- Demonstrated strong organisational skills in planning and delivering effective lessons.

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## Projects

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### Data Analytics & Machine Learning to Forecasting Macroeconomic Trends

- Implemented regression models, such as ARIMA, ARIMAX and SARIMAX, in python and compared model performance against a Long short-term memory 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.