

# William Betteridge

4<sup>th</sup> year Electronic Engineering student at York

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I am currently studying at the University of York as an electronic engineering student, with a practical ability to explore, understand and develop creative solutions. I also enjoy helping people and solving problems, especially being involved in outdoor activities as well as volunteering in a wide range of areas.

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## EDUCATION

MEng in Electronic Engineering, University of York

September 2021 – June 2025

- 4<sup>th</sup> year currently, 3<sup>rd</sup> year: 75%, 2<sup>nd</sup> year: 69%, 1<sup>st</sup> year: 85%
- Key modules: Control Engineering, Systems Programming, Machine Vision and Human Machine Interaction, Robotics Design & Construction, Semiconductor Devices, Nanoelectronics & Photonics, Mobile Comms & Internet Protocols

Calday Grange Grammar School

A Levels:

2019 - 2021

- Maths, Electronics, Physics: A\*, A\*, A

GCSEs:

2014 - 2019

- 10 GCSEs (grades 6-9, including five 9's).
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## PROJECTS

3<sup>rd</sup> Year Software Engineering Group Project – 74%

September 2023 – June 2024

- “DocDuck” Engineering Maintenance & Asset Manager Application. I took on the role of software manager in a group of 9, where I took a lead planning, designing and coordinating efficient implementation of software components for the project. Coordinated with all other group members to ensure equal participation, and sufficient understanding to undertake the coding side of the project.

3<sup>rd</sup> Year Robotics Design and Construction – 76%

September 2023 – January 2024

- Construction and autonomy of a mobile robot. We were tasked with constructing and programming an autonomous robot via the use of sensors and shortest path algorithms to navigate and map out solve a maze.
- Adapted and improvised many implementations of code to find a solution for the robot to solve the maze utilising an embedded system with infrared and ultrasonic sensors interfaced using I2C, and differential drive motors.

2<sup>nd</sup> Year Design, Construction & Test Group Project

January 2023 – June 2023

- Analogue lead role collaborating on the hardware in the group to create an electronic component tester. Applied creative and critical thinking in order to devise a unique solution to provide an interface via hardware that could be interpreted by a microprocessor to calculate component values.
- Applied knowledge learnt from analogue engineering and digital circuits modules at Uni.

1<sup>st</sup> Year Engineering Design Group Project

January 2022 – June 2022

- Project Manager, managed embedded system digital “Teeter” game, providing skills such as team management & organisation.
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## WORK EXPERIENCE

Nervous Systems Internship – University of York

June 2024 – September 2024

- Research internship at the University of York, working to develop a Spiking Neural Network using custom evolved artificial neural network microcircuits to create a control system for a robot and implement a simple obstacle avoidance.
- Attended weekly progress meetings and delivered a final presentation to the research group as well as developing a showcase poster for use at research fairs.

Lifestyle Courier – Evri (Hermes)

July 2022 – August 2022

- Responsible for delivery of parcels. Essential time management skills, route planning and customer liaison.
- Excellent 5 star customer service reviews, going above and beyond expectations and aiding customers, as well as taking extra time out to return extra parcels.

Heswall monthly magazine delivery – Talkabout Publishing Ltd

July 2016 – September 2021

- Delivery of local news magazines. Involving route planning and time management.

## VOLUNTEERING & RESPONSIBILITIES

### York Engineering Society

April 2023 – April 2024

- Secretary for York Engineering Society and the IET on campus group.
- Took the joint lead role organising and scheduling creative and unique events for a 280-member society.
- Established communication with new external companies and employees to arrange speaker talks.
- Directed a committee of 12, delegated tasks and responsibilities to other committee members.
- Streamlined the planning & delivery of events to make it easier for the committee to collaborate and organise events.
- Attended North Yorkshire IET meetings to explore opportunities for the society, (talks and local network volunteers).

### ShockSoc

April 2022 – April 2023

- Press & Publicity for ShockSoc (Later became York Engineering Society)
- Designed and created weekly newsletters to inform society members about upcoming events.
- Ran and maintained a social media presence posting eye catching graphics for each event.

### Photography Business - Willabphotography

November 2020 – Present

- Developed and established a social media presence for a personal photography business.
- Created a vibrant portfolio of work, produced and sold scenic calendars in 2021, 2022 & 2023, raising money for charity.
- Undertaken commissions for candid photos at anniversary celebrations, and sold Lakeland postcards in local artisan shop.

### Scouting

2017 – 2021

- Young leading with Cubs, organised and led engaging and inspiring activities for the cubs.

### Heswall Parish Youth Community Outreach Program

Summer 2019 & Summer 2021

- Leading and running activities for families and children in deprived areas of The Wirral.

### Local Nature Reserve Maintenance

Summer 2019

- Volunteered as a member of a team to maintain the nature reserve and keep its native species from being lost.

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## ACHIEVEMENTS

### Duke of Edinburgh - Silver

December 2019

- Persevered through DofE and was awarded Silver whilst working towards GCSEs.
- Organised and completed a 3-day expedition, overcame challenges of tough terrain and navigation.

### Duke of Edinburgh - Bronze

October 2018

### Duke of York - Bronze

June 2017

### Piano, Violin, Drums, & Music Theory Grade 5

2016-2019

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## SKILLS & INTERESTS

### Full clean driving licence + Pass plus skills

Passed May 2021

### Uni Societies + Extra Curricular

- Taken part in lots of uni societies, including the photography society, and got involved participating and winning in an exhibition around the theme of “Indoors & Outdoors”.
- Learnt skills such as coordination, and discipline from my interest in music and playing the Piano, Violin and Drums, all of which I have achieved grade 5 in with two merits and a pass.
- Played in the school orchestra as deputy lead violinist, working as a team.

### Academic and Programming Knowledge & Skills

- Programming Languages:
  - C/C++, Java, VHDL, HTML & CSS
- Creative thinking and solutions applied in circuit design, programming solutions.
- Interest and ability to explore and experiment with personal projects ranging from my own artwork & photography to software programs or electronic circuits used around the home.

### Hill Walking – Completing the Wainwrights

- Hill walking in the Lake District, currently enjoying the challenge of completing all the Wainwrights. Currently at 150/214 completed.

### Sports

- Golf, including playing in regular junior golf competitions, and now adult golf competitions. Persevering through Chronic Fatigue to maintain exercise and improve stamina, and motivating myself to improve.