

Finlay Bridge

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Profile

Driven MEng Mechanical Engineering graduate with diverse experience in technical project leadership, design, and process automation. Skilled in collaborating across teams to deliver innovative solutions, with a strong foundation in engineering principles. Passionate about tackling complex challenges and sustainable engineering and eager to apply my skills in a dynamic impactful role as part of Brydon Wood's Graduate Program.

Education

University of Birmingham **2021-2025**

Meng Mechanical Engineering

- First Class Honours (76% average)
- 74% Dissertation on FEA, additive manufacturing and mechanical testing of auxetic lattice structures
- Recipient of a scholarship for outstanding results and contributions to engineering department
- Key modules – Engineering Mathematics 3 (87%), Mechanical Design (77%), Thermodynamics and Fluids (90%), CFD and FEA (77%)

Bishop Ramsey CofE Sixth Form **2019-2021**

- Physics (A*) , Mathematics (A*), Economics (A)

Key Skills

- Teamwork and Collaboration
- 3D CAD – Autodesk Inventor and Fusion 360
- Project Management
- Coding – C and MATLAB
- Communication
- Full Clean UK Driving License
- 2D Drafting – AutoCAD
- Leadership

Experience

Osprey Group, Intern Engineer

June – September 2023 and 2024

Working within the nuclear team and alongside senior engineers to complete engineering required for abnormal load deliveries and installations around the country.

- Produced and implemented custom MATLAB scripts and dynamic spreadsheets to improve and automate the company calculation process
- Successfully led a design project from concept to realization, by 3D modelling and the creation of detailed fabrication drawings. Resulting in the creation of a physical product, which has been in use for over a year since fabrication
- Applied knowledge of engineering principles and AutoCAD expertise to deliver accurate high-quality lift plans and road and marine transport drawings
- Performed the planning, calculations, and drafting necessary to ensure safe delivery of critical infrastructure, allowing me to learn codes and practices within the industry
- Developed and implemented 3D models of company equipment, using Autodesk Inventor. Throughout there was collaboration between myself and other teams to understand technical requirements and perfect the 3D models

Class of Today, Mathematics Tutor

January 2022 - Present

Teaching mathematics to students of varying age, ability and needs. Ensuring that they meet their predicted grades and very often exceed them.

- Pioneered unique and interactive lessons that keeps the student engaged for 60 minutes or longer
- Ensured that 100% of students attained predicted grades or higher, contributing to an enhanced academic reputation for the company.
- Teaching 5 students of different abilities in a way that reflects the student's individual methods of learning
- Managing and scheduling lessons to fit around both my schedule and the clients
- Explaining often complicated topics in a way that the student can comprehend and understand, this is aided by strong communications skills and friendly demeanour

Hobbies & Interests

- Indoor and outdoor climbing – requires lots of problem solving for difficult routes as well as strong teamwork to ensure health and safety is a priority when rope climbing
- 6-a-side football – Developed strong teamwork and strategic thinking from this fast paced activity
- Regular exercise – focus on mental and physical wellbeing by consistently going to the gym and running. A goal orientated mindset benefits from these hobbies
- Reading – particularly nonfiction science based books