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Term address

3 All Saint's Place
Bath
BA2 6DU

Education**University of Bath (2023 – 2028)**

MEng (Hons) Mechanical Engineering – predicted grade: 1st

Solid Mechanics: 82%

Responsible Engineering: 72%

Engineering Design: 71%

Brampton College, London, A Level Results (2020 – 2023)

Mathematics: A*

Physics: A

French: A*

North Bridge House, London, GCSE Results (2015 – 2020)

7 x 9s

2 x 8s

2 x 7s

Engineering Projects and Experience**Green Bath Racing****September 2024 – Present**

Student led project participating in the Shell Eco Marathon to develop energy efficient vehicles.

- Built and assembled a custom battery for the vehicle
- Designed a battery housing in CAD and 3D printed it
- Soldered a microcontroller from open-source documentation
- Developed a PID controller to optimise motor efficiency

Team Bath Drones**September 2023 – June 2024**

Extracurricular program participating in the annual UAS Challenge hosted by IMechE.

- Concepted novel drone designs and conveyed my ideas through concept sketches
- Collaborated with senior team members to design the drone chassis
- Engineered chassis modifications to meet payload requirements

Sherpa Mobile Robotics – SMR**July – August 2024**

Industrial robotics manufacturer based in Alsace, France.

- Researched AI applications for:
 - Streamlining workflows within SMR
 - Prospecting technologies in the field of robotics
- Led an in-depth benchmarking analysis of 2 robotic fleet management platforms
- Worked on production lines to repair and assemble Autonomous Mobile Robots

Acquired key transferable skills such as use of generative AI, presentation skills, project-management and report writing.

Python Chess Game**June 2024**

Self-taught python to code a chess game from scratch.

- Learned Python from YouTube tutorials
- Coded a fully functional Player v Player chess game
- Started coding an AI tool for Player v Computer games

InvestIN Engineering Experience

July 2022

Engineering program held at UCL aimed at providing real world insights to young engineers.

- Designed and 3D printed an aerofoil, tested in a water tunnel to determine its critical angle
 - Engaged in teamwork to participate in a bridge building competition
 - Assembled a single-seat glider at Lasham Airfield
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Computing Skills

MATLAB - Proficient in MATLAB, used extensively in university projects and coursework

Python - Familiar with Python language from self-taught projects and university coursework

3D CAD Software - Proficient in Inventor Pro from student projects, coursework and hobbies

Microsoft Office – Excellent knowledge of Word, PowerPoint, Excel, and the Microsoft Environment

Work Experience

Cheese Shop Manager, France

July – August 2022, 2023

Independently managed a cheese shop during summer breaks in southern France.

- Navigated various responsibilities such as inventory management, accounting and direct sales

Swimming Coach, London

2020 – 2021

Level 1 certified swimming coach since 2020, responsible for teaching beginners.

- Successfully coached several beginner swimmers
 - Adapted communication style for different learners from novices to competitive swimmers
 - Learned how to delegate tasks effectively within a coaching team
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Activities and Interests

Swimming

- Developed discipline by swimming consistently 12 hours/week
- Balanced training, academics and other commitments
- Demonstrated resilience by handling setbacks

Bath SPI Team Secretary

- Lead event planning and team coordination, delegating responsibilities effectively and adapting plans to changing conditions.
- Organise travel, accommodation, and logistics for students attending an international regatta, coordinating event organisers and stakeholders