Zaheer Abbas Sidik

+44 7508 662381 | zaheersidik11@gmail.com | linkedin.com/in/zaheer-sidik

Education

University of Oxford — Keble College, Oxford
MEng in Engineering Science: Currently ranked in top 13% of cohort — *Sept. 2022 – Present*

- Preliminary Examinations: Distinction
- Second Year Examinations: First Class
- Third Year Examinations: First Class

Parmiter's High School — Garston, Hertfordshire
A - Levels: — *Sept. 2020 – Jun. 2022*

- Chemistry, Physics, Maths, Further Maths: A*

GCSEs: — *Sept. 2015 – Jun. 2020*

- Chemistry, Physics, Biology, Maths, Geography: 9
- Electronics, Economics, Spanish, English Literature: 8
- English Language: 7

Awards

Keble College — University of Oxford
College Scholarship — *2025 – 2026*

- Awarded the College Scholarship for outstanding academic performance in third-year examinations, achieving a First Class grade.

Keble College — University of Oxford
College Scholarship — *2024 – 2025*

- Awarded the College Scholarship for outstanding academic performance in second-year examinations, achieving a First Class grade.

Keble College — University of Oxford
College Scholarship — *2023 – 2024*

- Awarded the College Scholarship for exceptional performance in preliminary examinations, achieving a Distinction.

Research Experience and Projects

Sprint Training Time Predictor — Dec. 2025
Personal Project

- Designed a website that predicts race times at different distances and efforts based on user input.
- Currently used by the coaches and athletes and my club.

AVEVA — July 2025 – Aug. 2025
Software Developer - Intern — *Cambridge Science Park*

- Implemented a language server within the PML (Programmable Macro Language) VSCode extension and implemented features such as "Go to definition".
- Resolved coverity issues using Polaris.
- Implemented API functionality to allow for a drop down combobox in a RUR (Release Update Request) form.

University of Oxford — Oct. 2024 – June 2025
Cultured Meat Production - Group Research Project — *Department of Engineering Science, Oxford*

- Led the design of the differentiation stage, focusing on bioreactor design for myogenesis and adipogenesis.
- Modelled heat generation within bioreactors using ASPEN Plus to inform reactor wall thickness and jacket sizing.
- Developed the overall material and energy balance for the plant and used it to estimate CapEx and OpEx for financial analysis.
- Performed an optimisation study for plant location and supply chain strategy, assessing supplier networks and sensitivity to disruption.

University of Oxford Oct. 2024 – Jan. 2024

Sustainable Computing - Research Project *Department of Engineering Science, Oxford*

- Developed models to predict UK carbon intensity on hourly, daily, monthly, and yearly timescales using Facebook's Prophet and LightGBM.
- Analysed national carbon intensity data using quanitative methods to determine optimal periods for running computationally intensive tasks to minimise emissions.
- Characterised the power consumption behaviour of two laptop architectures under machine learning workloads using PowerTOP.
- Produced findings to guide sustainable computing practices through data-driven decision-making.

University of Oxford June 2024 – Aug. 2024

CFD Analyst - Intern *Engineering Department, Oxford*

- Simulated multiphase flow of Liquid Nitrogen over heatsinks in Power Electronics Applications to model the effects of changing geometry on transistor temperature using Ansys Fluent.
- Generated geometry using Solidworks and Ansys SpaceClaim and analysed results using CFD-Post.
- Utilised command line applications to generate rgp files for the gas properties.

Work Experience

ZASTutoring Sept. 2021 - Present

Tutor and Founder *Online*

- Started my own tutoring company to provide affordable high-quality lessons from students at the University of Oxford.
- Employed 2 more tutors to cope with additional demand.
- Developed the skill of teaching and managing a business through social media.

Ryman Sept. 2021 – June. 2022

Sales Assistant *Edgware, London*

- Worked a part time job during my final years of high school to give myself experience in a working environment.
- Developed communication and time management skills.

Volunteering

OUABSoc May 2025 – May 2026

President *Oxford University*

- Led and organised weekly events.
- Worked as part of a team to hold larger events open to external guests.

Skills & Interests

Skills: Ansys Fluent, Solidworks, VSCode Language Extensions

Programming Languages: MATLAB, Python, C++, Typescript

Interests: Athletics, Tech, Sustainability, Computational Modelling, Chemical Engineering

Languages: English, Arabic [Limited Proficiency]