# Zaheer Abbas Sidik

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## EDUCATION

**University of Oxford**
*MEng in Engineering Science: Currently ranked in top 13% of cohort*

Keble College, Oxford
*Sept. 2022 – Present*

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

**Parmiter's High School**
*A - Levels:*

Garston, Hertfordshire
*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**
*College Scholarship*

University of Oxford
*2025 – 2026*

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

**Keble College**
*College Scholarship*

University of Oxford
*2024 – 2025*

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

**Keble College**
*College Scholarship*

University of Oxford
*2023 – 2024*

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

## RESEARCH EXPERIENCE AND PROJECTS

### Sprint Training Time Predictor
*Personal Project*

- Developed a machine learning model to predict sprint training times based on historical performance data.
- Implemented data visualization features to track progress and analyze training patterns.
- Deployed the application as an interactive web tool for athletes and coaches.

**AVEVA**
*Software Developer - Intern*

July 2025 – Aug. 2025
*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**
*Cultured Meat Production - Group Research Project*

Oct. 2024 – June 2025
*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]