

# 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:*

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

Garston, Hertfordshire

Sept. 2020 – Jun. 2022

*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

*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 coverage 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***Sustainable Computing - Research Project*

Oct. 2024 – Jan. 2024

*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 quantitative 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***CFD Analyst - Intern*

June 2024 – Aug. 2024

*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***Tutor and Founder*

Sept. 2021 - Present

*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***Sales Assistant*

Sept. 2021 – June. 2022

*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***President*

May 2025 – May 2026

*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]