

Education

Trinity College, University of Cambridge	Expected 2027
Engineering BA and MEng	
Grades: 4th out of 323 in University of Cambridge and 1st in Trinity College for Part IA (799/900)	2024
Elected Senior Scholar and received the Garrett Fund Prize, for exam performance	
53rd International Physics Olympiad	2023
Silver Medal — 55th out of 400+ contestants (64%)	
1st in the UK for the British Physics Olympiad Round 3 and NPL Theoretical Physics Prize	
Nottingham High School	2023
4 A* in Further Mathematics, Mathematics, Physics and Chemistry	
Distinction in British Mathematics Olympiad (33/60) and full marks in the Senior Maths Challenge	
Gold in the UK Chemistry Olympiad Round 1 (84%)	
Qualified for the International Chemistry Olympiad UK team selection camp	

Experience and Projects

Snake Game	
Project	September 2024
<ul style="list-style-type: none">Wrote a 500 line OOP-based implementation of the popular game Snake in C++Stored data through extensive use of the STL. Used OpenGL for rendering game graphicsIncluded several features into the UI, such as togglable help prompts.	
Sepal AI	Remote
Consultant — Physics Specialist	August 2024
<ul style="list-style-type: none">Solved and wrote 8 advanced physics questions for an AI reasoning evaluation datasetStreamlined objectives with client AI lab via reviewal feedback loops	
British Physics Olympiad	Oxford
Lecturer	April 2024
<ul style="list-style-type: none">Delivered a 2 hour lecture on AC theory to the top 14 students in the British Physics OlympiadWrote 20 pages of mathematically rigorous supplementary notes with \LaTeXTutored a student who subsequently qualified for the International Olympiad of Astronomy and Astrophysics UK team selection camp	
Orbyts AGN Research Paper	Nottingham
Student Researcher	October 2022 – April 2023
<ul style="list-style-type: none">Identified composition of AGN outflow winds by processing and fitting data of emission spectra from the XMM Newton X-ray telescope using PythonDelivered a final presentation detailing theory, results and conclusionsSubmitted analysis to the Astronomy Theory, Observations and Methods Journal	

Societies

Cambridge University Space Flight	Cambridge
CAD Modelling	October 2023 – December 2023
<ul style="list-style-type: none">Developed a CAD model of the CUSF rocket nosecone using SolidWorksBuilt a mock-up of the nose cone, which was used in sponsorship events	
Trinity College Engineering Society	Cambridge
Freshers' Representative	October 2023 – Present
<ul style="list-style-type: none">Engaging first year engineers in the college discourse and being a voice in committeeOrganised several social events for first years to network with senior years	

Skills

Technical: Python, C++, OpenGL, STL, SolidWorks 2022, \LaTeX
Language: English (Native fluency), Chinese (Conversational fluency)