

# Thomas Davies

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## EDUCATION

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**University of Cambridge, Queens' College**

2021-2024

**B.A. Mathematics**

- Achieved a 2.1 in first year.
- Courses studied: Vector Calculus, Probability, Analysis, Groups, Differential Equations, Numbers and Sets, Vectors and Matrices, Dynamics and Relativity.

**Boroughmuir High School, Edinburgh**

2015-2021

**National 5s, Highers and Advanced Highers**

- Advanced Highers: Maths(A1), Mechanics of Maths(A1), Physics(A2), Chemistry(B3).
- Highers: Maths(A1), Physics(A1), Computing(A1), Economics(A2), Chemistry(A2)
- Achieved a grade 2, 1 in step 2, step 3 respectively and was accepted into Cambridge.

## WORK EXPERIENCE

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**Leonardo**

2019

**Work experience placement**

- Was one of 6 students selected to do work experience and attended for a week.
- "Leonardo is one of the UK's leading aerospace companies and one of biggest suppliers of defence and security equipment to the UK MOD." - Leonardo

**Deutsche Bank**

2019

**24hr International Hackathon**

- Led the backend development of our sustainability app on azure.
- "He's been brilliant. A very intelligent confident and quick learner. An absolute pleasure to work with him" - Nick Boyle (team leader)

## AWARDS AND SCHOLARSHIPS

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**The Smallpeice Trust**

2019

**Arkwright Scholarships**

- Awarded for building a raspberry pi controlled robot car with a wii remote as a controller.
- Granted 600£ and a mentor at google.

## EXTRA CURRICULARS

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**UK University Integration Bee**

2021

- Participated in first round and qualified for the final round in a team of 3.

**UK University Algorithmic Poker Competition**

2023

- Created a Bot to play Heads-Up No-Limit Hold'em Poker against other bots submitted from across the UK.
- Qualified for the finals and placed 9th overall.

**Personal Projects**

2017-Current

- I've completed a number of personal computing/ maths projects including a remote controlled car, solving tic tac oe and connect 4 using minmax, predicting orbits using forward euler method, numerous jailbreak tweaks/ dev tools, a discord bot to fetch cambridge example sheet questions with a command. Most of my projects can be found on my [github](#).

**Rampaging Chariots**

2017-2018

- Built a robot to compete in robot wars style competitions including football, races and automated path following, ranked 3rd in football. Hosted at Leonardo.