

Eliyahu Gluschove-Koppel

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Experience

ADC Theatre (Oct. 2025 - present)

Participated in multiple student shows as a Technical Director, CLX, and carpenter.

Gonville and Caius College, Art Club Treasurer (Aug. 2025 - present)

St Paul's School, Engineering Gap Year Intern (Sep. 2023 - Oct. 2024), Firefly Racing Electronics and Telematics Lead (Sep. 2020 - Oct. 2024)

- Placed second in the racing side of the Greenpower electric car racing competition, and won the Ford International Engineering Award in three consecutive years
- Developed hardware and software for a Formula 1 inspired steering wheel, hybrid LoRa and GSM telematics system, motor controller, and power distribution module
- Integrated CAN bus into an electric racing car for throttle-by-wire and telematics sensing
- Developed a process for rapid, low-cost manufacture carbon fibre prepreg moulds, reducing production time from multiple weeks to 2-3 days

TIM Group, Software Development Intern (2017, 2018)

- Aided in development of a trading signal used by quantitative hedge funds
- Improved integration between a Slack app written in Ruby, and a Nagios and PagerDuty based server monitoring system

Education

Gonville and Caius College, University of Cambridge, MEng Engineering (Oct. 2024 - 2028)

Achieved top II.1 in first year

Second year course includes electronics, mechanics, linear systems, signal processing, data analysis, structures, thermodynamics, materials, and mathematics.

Coursework includes:

- Lego Mindstorms - developed a flying spot camera with Lego Mindstorms actuators and sensors, programmed in Python
- Integrated electrical project - designed and simulated an analog audio synthesiser in LTSpice before building and testing on a breadboard
- Structural design project - designed and manufactured a cantilever structure from aluminium and tested it to destruction

Self taught - A level Physics (A*) (Jan. - June 2024)

St Paul's School - A level Maths (A*), Further Maths (A*), Chemistry (A*), Biology (A) (Sep. 2012 - 2023)

Awards

CUES x CUCATS AI Hackathon, University of Cambridge (Mar. 2025)

Developed a tool to aid with student learning in Python in a team of 3, placing 1st out of 16

Cam Hack 2024, University of Cambridge (Nov. 2024)

Developed an AR chess vision system in Python in a team of 4, placing in the top 6 out of 34

Toller Mathematics Prize, St Paul's School (June 2022)

Modelled spread of COVID in Python and gave presentation, placing in the top 4 out of 90

Weizmann Safe Cracking Tournament, St Paul's School (Nov. 2021 - Apr. 2022)

Developed physics puzzles to secure a safe in a team of 5, placing 1st internationally out of 44

Perse Coding Team Challenge, St Paul's School (Mar. - Apr. 2021)

Completed programming challenges in a team of 3, placing 1st nationally out of 7500

Personal projects

RISC-V CPU design (2021)

Operating system development (Sep. 2020 - present)

Compiler development (Oct. 2021 - Jan. 2022)

Server management (2022 - present)

Proficient in Microsoft Office; Google Workspace; OnShape; Rust; C; C++; Python; Git; ETC EOS; QLab.
References available upon request.