

Alex Hegedus-Adkin

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EDUCATION

IMPERIAL COLLEGE LONDON | MENG ELECTRONIC & INFORMATION ENGINEERING London, UK | Sep 2024 - Jun 2028

GPA: 70.4% (Year 1)

KING EDWARD VI SCHOOL

Southampton, UK | Sep 2019 - May 2024

WORK

IMPERIAL COLLEGE LONDON | UNDERGRADUATE TEACHING ASSISTANT London, UK | Oct 2025 - Mar 2026

- Helped students understand basic concepts in Digital Electronics and Computer Architecture.
- Helped students debug, design, and analyse an in-house computer architecture and computer arithmetic circuits.

SKILLS

PROGRAMMING LANGUAGES	C/C++, Rust, Python
HARDWARE DESIGN	KiCAD, Verilog/SystemVerilog
LANGUAGES	English (Native/C2), German (A2)

PROJECTS

FRED/FREDDO | SYSTEMVERILOG, VERILATOR

<https://github.com/ELEC50010-IAC-Ridgewell-Team12/freddo>

RV32I core w/ branch prediction. Led branch prediction and ALU, assisted with testing/debugging and control path.

EEE SEABOAT | HTML/CSS, JAVASCRIPT, ARDUINO

<https://github.com/alex-ha-192/seaboat2025>

Wi-Fi controlled rover w/ environmental sensors. Led PCB design, motor control, and browser-based controller.

RAT² | RUST, PYTHON

<https://github.com/ratsquared>

Web-connected and automatically optimising smart solar grid. Led backend server development and MPC/LP optimisation engine.

STEVE | C, UNIX

<https://github.com/ELEC50014-SoftwareSystems-AloeVera/steve>

A Unix terminal with support for redirection and batch operation, as well as limited subshell support.

MAISIE | C, UNIX

<https://github.com/ELEC50014-SoftwareSystems-AloeVera/maisie>

A multi-threaded, multi-user IRC-style chat application. Developed the client/server interface and wrote a multi-threaded, deadlock-protected central server.

AWARDS

ACADEMIC SCHOLARSHIP KING EDWARD VI SCHOOL, SOUTHAMPTON | SEP 2019

Awarded for high entrance exam scores and maintained this standard for 5 years.

SCHOLARSHIP UKESF | DEC 2025