

Louie Beatty

✉ LouieBeatty2003@gmail.com 📍 Brighton And Hove

🔗 <https://github.com/Louie-Beatty/>

EDUCATION

MEng Electronic Engineering

University of Sussex

Received First Class Honours in first year of study.

09/25 – 09/29
Brighton and Hove

Relevant Modules:

- Electrical Circuits & Devices
- Electronic Devices and Circuit Prototyping
- Programming For Engineers (C)

Access Diploma in Engineering (Level 3)

Chichester College

- Achieved highest possible grade of all distinctions (144 UCAS Points)

09/24 – 06/26
Chichester

TECHNICAL SKILLS

Programming Languages: C++, C, VHDL, Python

Tools: Linux, Vivado, Multisim/LTSpice, Git, Oscilloscopes/Function Generators, BreadBoarding

PROJECTS

C++ Chip 8 Emulator

Virtual Machine

- Developed a fully functional CHIP-8 virtual machine from scratch using C++.
- Engineered core computer architecture components, including CPU opcode decoding, memory management, and the main execution loop.
- Implemented graphics rendering using the Raylib Library

PROFESSIONAL EXPERIENCE

HackSussex Comittee Member

Voluntary

- Ran a weekly competitive coding club teaching beginners data structures and algorithms
- Organised within a team largest hackathon within the south-east region with 175 attendees
- Optimised website load time and accessibility

01/26 – Present
Sussex University

Student Ambassador

University Of Sussex

- Conducted comprehensive campus tours for prospective students, providing detailed insights into university life and degree programs.
- Collaborated with university staff to ensure the smooth operation of recruitment events and departmental presentations.

04/2026 – Present

Care Support Worker

Leonard Cheshire Disability

- Demonstrated leadership with being in charge of other staff on shift
- Administered medication

09/23 – 09/25
Worthing