

Education

- Imperial College London, MEng Electrical & Electronic Engineering — 2:1** 2013–2017
- Second year: moved up by 10% in class ranking; Algorithms & Data Structures (93%).
 - Third year: Artificial Intelligence, Real-Time Digital Signal Processing, Digital System Design, French Level 2.
 - Fourth year: High-Performance Computing for Engineers, Embedded Systems, Advanced Computer Architecture, Optimisation, Pattern Recognition, Power System Economics, Strategic Management.
 - **Final-Year Individual Project** [70%]: “Fused Arithmetic Analysis for Efficient Hardware Datapath” has involved building upon the open-source Python project “Structural Optimisation of Arithmetic Programs”.
- Herschel Grammar School, Slough — A*AAA** 2011–2013
- A-Levels: Mathematics (A*), Further Maths, Physics and Chemistry.
- Beechwood School, Slough** 2007–2011
- BTECs: 6 grade Distinction*; GCSEs: 6 grade A*–C, including Maths (A*), Science (A*) and English.

Work Experience

- Python Back-end Developer — YesWeStock, London** Jul–Sep 2016
- As the only back-end developer, I added 2 grand features that increased user signup rate by 20%.
 - Also developed the front-end, using Facebook’s **React** to incorporate aforementioned new features.
 - In charge of improving and maintaining the core Python Flask web app along with Amazon Web Services.
 - Designed and documented new **RESTful** APIs in partnership with the internal, mobile app team.
- Production Team Volunteer — Holy Trinity Brompton, London** Mar 2016–present
- Developed my ability to communicate and work well under pressure during live Sunday services of over 400.
- Seasonal Technical Assistant — Computers 4 Africa, Maidstone** 2007–present
- Involved with refreshing donated PCs for schools in developing countries, and awareness presentations.

Technical Projects

<http://eusebius.tech/projects>

- Eusebius.Tech: technology blog** Jul 2016–present
- High-quality articles for the general public attracting over 200 monthly, unique viewers.
 - Open-source projects for developers such as client-side, website social login demos using **JavaScript** SDKs.
- Crypto-Key: Internet-of-Things (IoT) microPython Embedded System [A+]** Feb 2017
- Random-number and random-password generator using a Geiger (radioactivity) counter.
- High-Performance Computing for Engineers: Fourth-year coursework module** Oct–Dec 2016
- Learned to accelerate **C++** programs by parallelising using TBB as well as **openCL** to be run on a GPU.
 - Demonstrated effective use and understanding of **Linux**, test scripts, git and Amazon Web Services.
 - Produced technical reports that included code analysis and performance evaluations.
- USB Oscilloscope: Facebook London Hackathon 2016** Mar 2016
- Worked in a team of 3 to produce—in less than 20 hours—an oscilloscope desktop program and accompanying web app which display time-domain and frequency-domain (FFT) views of an ADC’s input signal.
- Technical Consulting for a specialised Asset Tracker: Group project; technical leader [A]** May–June 2016
- Speech Enhancement: Third-year Real-Time Digital Signal Processing project on a TI DSK [A]** Jan–Mar 2016
- Android Development—built a weather app as part of 6-week Android Boot Camp (Java novice)** Feb–Mar 2015

Awards & Responsibilities

Awards

- 2013–2017 IET Diamond Jubilee Scholarship, awarded to less than 400 engineering students nationwide.
- Gold in the 2011 UK Senior Mathematical Challenge; advanced to the Olympiad of 1,000 students nationwide.

Societies

- ICU East African Society 2016–17 President. Collaborating with other universities for bigger events.