

Eusebius Mujuni Ngemera

esebi95@gmail.com

<http://eusebius.tech>

Education

- Imperial College London, MEng Electrical & Electronic Engineering** — currently 2:1 **2013-17**
- Second year improved over first year, moved up by 10% in class ranking; Algorithms & Data Structures (93%)
 - Third year: Artificial Intelligence, Real-Time Digital Signal Processing (79%), Digital System Design (76%)
- Herschel Grammar School** — A*AAA **2011-13**
- Mathematics (A*), Further Maths, Physics and Chemistry
- Beechwood School, Slough** **2007-11**
- GCSEs: 6 grade A*-C, including Maths (A*), Science (A*) and English
 - BTECs: 6 grade Distinction*

Work Experience

- Python Back-end Developer** — **YesWeStock**, London **Jul-Sep 2016**
- Working at a small startup has lead to a breadth and depth of skills learnt.
 - In charge of a **Python** Flask web app along with Amazon Web Services.
 - Designed new **RESTful** APIs to facilitate mobile apps.
- Production Team Volunteer** — **Holy Trinity Brompton**, London **Mar 2016 - present**
- I have been involved as director, vision mixer, song-words and camera operator.
 - Developed my ability to communicate and work well under pressure during live Sunday services.

Technical Projects

- Eusebius.Tech**: technology blog
- A Jekyll static website with high-quality content aimed at software developers and engineers.
- USB Oscilloscope**: Facebook London Hackathon 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 **May-June 2016**
- As technical leader, I have set the team's direction to implement and perfect the system
 - Work has involved **node.js** on Tessel, an **Arduino** system, as well as close contact with the client
- Speech Enhancement**: Third-year Real-Time Digital Signal Processing project **Jan-Mar 2016**
- Performed successful noise reduction from speech using frame processing on a TI DSP Starter Kit (DSK).
- The Prudent Buggy**: Second-year group project **2014-15**
- Developed a working, automatic, electronic braking system for infant buggies, with Bluetooth communication (via an Arduino) between handlebar sensors and brakes. I was responsible for the braking subsystem.
 - Accelerated a software function with hardware by implementing CORDIC algorithm in **Verilog** on an **FPGA**
 - Multi-signal frequency counter on **mbed** microcontroller (intermediate)
 - **Android** Development — built a weather app, used JSON querying (Java novice)

Awards & Responsibilities

Awards

- IET Diamond Jubilee Scholarship
- Gold in the 2011 UK Senior Mathematical Challenge

Societies

- Imperial College Kenyan Society, outgoing treasurer and incoming president