Eusebius Mujuni Ngemera

Imperial College CID: 00825003
https://about.me/eusebius
(GitHub and LinkedIn)

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 modules: Control Engineering, Digital Signal Processing, Artificial Intelligence, Digital System Design

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*

Technical Experience

- Accelerated a software function with hardware by implementing CORDIC algorithm in **Verilog** on an **FPGA**
- Multi-signal frequency counter on **mbed** microcontroller (intermediate)
- **Python** web crawler & page-ranked search engine (intermediate)
- **Android** Development — built a weather app, used **JSON** querying (Java novice)

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.

Work Experience

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.

Part-time Sales Assistant — Sports Direct International, Slough **Sep 2014 - Apr 2015**
- Demonstrated my ability to adapt, with supervisor's feedback: "quick learner"

Maintenance Technician — Cardinal Clinic, Windsor **Jun 2010**
- Developed effective communication in a work environment as part of the maintenance team

Extra-Curricular Activities

Career
- Awarded IET Diamond Jubilee Scholarship, to be an ambassador for the IET and engineering
- Google Codestar — developed key programming skills during the summer of 2015 through hands-on learning
- Gold Certificate in the 2011 UK Senior Mathematical Challenge

Societies
- Imperial College Kenyan Society, outgoing treasurer and incoming president