**SAMUEL MITCHELL**

[84samuelmitchell@gmail.com](mailto:84samuelmitchell@gmail.com)

07454 065 666

[github.com/jfetkotto](https://github.com/jfetkotto)

[linkedin.com/smitchell84](https://www.linkedin.com/in/smitchell84/)

I recently graduated with a 1st Class BEng in Electrical & Electronic Engineering, and the School of Engineering’s Student Integrity award. I attended university as a mature student with much work experience and have a lifelong passion for electronics. I regularly work on hobby projects using both hardware and software, spanning myriad fields such as signal processing, music, and games. I have worked in multiple successful Engineering team projects, including forming a submission for the Engineering For People Design Challenge, which resulted in an invitation to the national finals.

**EDUCATION**

**London South Bank University**. BEng Electrical & Electronic Engineering (2020) 1st class honours. BEng final project: “*Data Modulation & Demodulation System: Demonstration & Evaluation*”

**EMPLOYMENT**

**Ten Messenger Bags**

*Founder (Feb 2015–September 2017)*

Design and manufacture of messenger bags and accessories for cyclists and bicycle couriers.

**Self-Employed**

*Bicycle courier (July2007–September 2017)*

Ad hoc same-day logistics.

**RELEVANT PROJECTS**

**FPGA Audio Synthesizer**: Design and implementation of FPGA core for audio synthesis, utilising DDS techniques and custom SPI module for interfacing with external microcontrollers.

**SKILLS**

**Programming/Hardware languages**:C/C++, Python, MATLAB,Verilog,VHDL

**Software**: Linux, MacOS, Windows, SPICE (Multisim, LTSpice, MacSpice), Quartus, Modelsim

**Hardware**: Oscilloscope, Signal Generator, Spectrum Analyser

**INTERESTS & ACHIEVEMENTS**

**Music**:I have played the drums for 20 years in multiple bands

**Engineering**:LSBU School of Engineering Award for Integrity 2019/20