

SAMUEL MITCHELL

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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 (July 2007–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