

Nasim XX
XXXXX, XX, XX XXX

Email:
Mobile:

Education:

Imperial College London

Electrical & Electronic Engineering MEng
Currently 3rd year Student, on track for 2:1

Oct 2017 – Present

Woodhouse College:

Mathematics (A*), Physics (A), Chemistry (A)

Aug 2015 – Jun 2017

Languages:

C++ | Python | Assembly | Verilog | MATLAB

Skills and Competencies:

Analogue Design

- Designed and Simulated a Vector Network Analyser in LTSpice and processed data in MATLAB script
- Using a dual shunt implementation to sense currents of 2 port devices
- Applied IQ modulation & FFT methods to acquire vector voltages & currents to calculate Y-parameters

Digital Design

- Synthesized digital systems using Verilog and test utilities and developed on FPGA hardware
- Fabricated Finite State Machines, real-time audio processing loops, a simple DAC and other systems

Programming (C++)

- Programmed digital synthesizer using multiple threads and interrupts
- Created and programmed 'Mastermind' code breaking algorithm to solve for user selected constraints
- Programmed and developed 2048 game

Lab Work

- Experience in a lab environment and adept with oscilloscopes, signal generators, soldering irons, etc.
- Designed a dual layer PCB for a lab project using Altium CircuitMaker

Projects:

Broadband Amplifier

- Designed and manufactured broadband amplifier from discrete op-amps
- Achieved specifications such as low & high cut off frequencies of 1kHz and 100kHz and 100dB gain

Wirelessly controlled rover – 1st year project

- Designed Arduino based Bluetooth controlled rover to detect various signal combinations
- Built instruments/sensors to detect radio, magnetic, IR and acoustic signals

6502 based Computer – Personal

- Built and assembled breadboard computer based on the W65C02S microprocessor
- Devised a custom Arduino programmer and manually flashed EEPROM according to timing constraints

Employment History:

Private Tutor

(London, UK)

Sep 2017 – Present

GCSE & A-Level (Maths and Science) Tutoring

- Teaching and advising students of all levels from primary up to A-Level
- Communicating and teaching complex ideas in a clear and concise manner

STEM Outreach e-mentor

(London, UK)

Sep 2020 – Apr 2021

- Mentored A-level students with regards to post college options and university applications

Sales Assistant – The Stockroom

(London, UK)

Jul – Aug 2017

Sales Assistant – Blue Inc.

(London, UK)

Apr – Jun 2015

- Exceptional communication and salesmanship skills as well as team working abilities