

## Shenhui LI

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[https://nosilil.github.io/shenhui\\_li\\_portfolio/](https://nosilil.github.io/shenhui_li_portfolio/)

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A highly numerate and computer literate engineer interested in digital system design and IoT.

### EDUCATION

**Imperial College London**

**2017-2021**

MEng Electrical and Electronic Engineering (graduated with 2:1)

**Bellerbys College**

**2015-2017**

A Levels: Physics (A\*), Mathematics (A\*), Further Mathematics (A\*), Chemistry (A)

### SKILLS

**Programming:** Java, C/C++, F#, Python, Arduino, Mbed, ARM Assembly

**CAD / CAE:** MATLAB, LabView, Altera Quartus FPGA environment

**Relevant Modules:** Digital System Design, Full-custom IC Design, Hardware and Software Verification

**Languages:** English (C2), Mandarin & Cantonese (native speaker), Japanese (beginner)

### PROJECTS

**Synthsense Lily Pad (C, C++)**

An adaptation on a commercial drone to achieve reliable autonomous flying and wireless data transmission.

**BladeBug Localisation System (C, MATLAB)**

A localisation system for the wind turbine inspection robot BladeBug.

**Pa!ntLabs (Python, Android Studio, HTML)**

An IOT device which makes accurate measurement of an object's colour and displays relevant information from data base.

**Arithmetic Functions Acceleration (FPGA, Altera Quartus)**

Customised hardware blocks for floating point arithmetic and CORDIC.

**BagTrack (Arduino, Android Studio)**

A smart bag system to keep track of bag contents, alert user on changes in content.

**Real-Time Earthquake Map (Java)**

An interactive map, and info database, of worldwide earthquake history.

### EXPERIENCE

**Robotics Electrical Engineer, UVRobotics (part-time)**

**Oct - Dec 2020**

**English Teacher, ACE English (full time)**

**Jul - Sep 2019**

**Volunteer, British Red Cross (part-time)**

**Jan - Jul 2017**

**Student Union Secretary, Bellerbys College**

**Sep 2016 - Jun 2017**

### HOBBIES and INTERESTS

**Sports:** tennis, badminton, basketball, weightlifting

**Hobbies:** photography, cooking