

KEYAN SADEGHI NAMAGHI

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EDUCATION AND QUALIFICATIONS

2013 - Present: **Imperial College London, Electrical and Electronic Engineering MEng**

- Third Year: Developed an IoT Tea brewer capable of brewing tea to the requested strength via an SQL database via an MQTT server, programmed a real-time audio noise removal program via spectral subtraction
- Second year: Designed and produced an echo synthesiser for a FPGA using Verilog, designed and constructed a high gain broadband amplifier, developed an Assembly algorithm for computation of 64-bit multiplication for a 16-bit processor
- First year: Group Project – System/circuit designer for group project involving a line following robot
Coursework - Developed and compared the efficiencies of several Sudoku solving algorithms

2007 - 2013: **Ysgol Friars School, Bangor**

- A levels: Mathematics (A*), Physics (A), Chemistry (A), Further Mathematics (B)
 - GCSEs: 5A* 4A 3B including Mathematics and English
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WORK AND VOLUNTEERING EXPERIENCE

Aug 2017 – Oct 2017: **Engineering Consultant, Climate Edge, London**

- Continued development of third year group project

Oct 2016 – Mar 2017: **Programming Tutor, Code Club, Brompton Library**

- Volunteering to mentor and teach children up to 11 years old programming
- Involved in simplifying complex programming concepts and theories for young children to understand

2010 - 2013: **Assistant Manager, Pizza House, Bangor**

- Assisted recruitment and training of employees
- Modernised equipment and operations including overseeing a complete renovation
- Operated in a high stress environment leading a team enhancing my interpersonal skills and composure

2011 - 2013: **Trained Peer Mentor, Ysgol Friars School, Bangor**

- Taught mathematics to several children including some with severe learning disabilities improving their performance, enthusiasm and confidence
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TECHNICAL PROJECTS

Oct 2014 - May 2015: **Third year university group project – Climate Edge Application and Sensor**

- Developed an Android application to receive data from a microprocessor via Bluetooth then log, graphically plot and send the data to an SQL database
- Manufactured a cheap non-mechanical rain gauge utilizing piezoelectric sensors

Oct 2014 - May 2015: **Second year university group project – ReceiptBook**

- Worked in a team as communications system designer to design a system which transmits and stores customer shopping receipts in a digital form factor via near-field communication
- Developed a system to transmit files from a point of sale machine to an Android device wirelessly

Aug 2012: **Peltier Plate Temperature Management System, Photonics Academy of Wales, Bangor University**

- Designed and produced a temperature management system for use in thermal cooling inside vehicles
 - A working prototype that used Peltier coolers and supercapacitors was manufactured
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SKILLS AND ACHIEVEMENTS

Programming Skills: Experience in C++ ,C# and Python, moderate experience in Prolog, Assembly, Verilog HDL, MATLAB and Android app development (Java).

Software: Altera Quartus II for FPGA design, WEBENCH Filter Designer, LabVIEW, Altium CircuitMaker.

Languages: English (fluent), Welsh (basic proficiency).

Achievements: IET Diamond Jubilee Scholarship 2013, Airbus UK Award 2013, LAMDA grade 7 public speaking.

Activities and Societies: Dog walking, Hiking, Rugby, London Achalasia Meetup.

REFERENCES AVAILABLE UPON REQUEST