

KEYAN SADEGHI NAMAGHI

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EDUCATION AND QUALIFICATIONS

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

- Third Year: Modules include – Biomedical Engineering, Electrical Energy Systems, Mathematics for Signals and Systems and Artificial Intelligence.
- Second year: Coursework– 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 in which I developed a solution using a microcontroller. Coursework - Developed and compared the efficiencies of several Sudoku solving algorithms for my final software engineering project.

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

WORK AND VOLUNTEERING EXPERIENCE

Oct 2016 - Present: **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
- Designed projects for children of all programming abilities to work on
- Gained strong and adaptable communication skills while also improving my teaching abilities

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**

- Provided mental and emotional support for children who were not achieving their full potential
- Taught mathematics to several children including some with severe learning disabilities improving their performance, enthusiasm and confidence

2010 - 2012: **Rugby Coach/Referee, Ysgol Friars School, Bangor**

- Coached and refereed younger rugby teams focusing on developing their tactical and physical game

TECHNICAL PROJECTS

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

- Team communications system designer
- Worked in a team 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 heat pump and supercapacitors was manufactured
- Gained several skills including planning, design and organisational skills

SKILLS AND ACHIEVEMENTS

Programming Skills: Experience in C++, moderate experience in C, knowledge of Prolog, Assembly, Verilog HDL, MATLAB, basic knowledge of Python and Android app development.

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

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

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

Activities and Societies: Hiking, Rugby, Finance Society, London Achalasia Meetup.

REFERENCES AVAILABLE UPON REQUEST