Muhammad Affan Qureshi

+44 (0) 7437369658 | muhammad.qureshi14@imperial.ac.uk

Flat 14, North End House, Fitzjames Avenue, London, UK W14 0RS

Education

Imperial College London, MEng Electrical and Electronic Engineering **2014 – 2018**

- First Class in 2nd year (75.6%) and 1st year (73.5%)
- 3rd Year Modules: Artificial Intelligence, Machine Learning, High Level Programming, Embedded Systems, Math for Signals and Systems, Control Engineering, Communication Systems
- Relevant 1st and 2nd Year Modules: Algorithms and Data Structures, Algorithms and Complexity, Computer Architecture, Digital Electronics and Mathematics

GCE A-Levels – 3 A*s, 1 A **2012 – 2014**

- A* in Mathematics, Physics and Chemistry; A in Further Mathematics

Work Experience

Pepsi-Cola International **July 2016 – August 2016**

- Intern in the Packaging Department at the Frito Lays Snacks Plant
- Achieved 10% reduction in the monthly cost of operating supplies by making the maintenance process more efficient, more specifically:
  - Created a database to record used supplies and trained unskilled labour to use the database
  - Introduced issuance slips for better accountability
- Gained working knowledge of the whole plant, including the electrical network, PLCs, multihead weigher and bag making machines

PowerSoft19 **June 2015 – August 2015**

- PowerSoft19 is a technology services and consulting company with several Fortune 500 clients
- As part of the Automation Team, I was involved in:
  - Automated testing of gas sensors used in the oil and gas industry
  - Making the Microsoft Windows GUI perform specific tasks using the AutoIt scripting language
  - Working on the .NET framework

Group Projects

- **ARM Assembler and Emulator –** A subset of Cortex-M3 Instruction Set (F#)
  - Implemented the machine state and memory instructions
  - Used FsCheck and Expecto for testing
  - Used git for version control and code collaboration
- 2nd Place among 24 teams at the Cisco University Challenge 2015
- 2nd year group project - Built a prototype wireless power transmission device, aimed for the medical industry, that could charge an iPad Pro with a 1” space between transmitter and receiver. Was responsible for DC to AC conversion module needed for the transmitter
- 1st year group project - Built a line following robot. Worked on circuitry and microprocessor programming
- Designed an automated data recording system to monitor health of natural streams and waterways for Nepal Water for Health (NGO) as part of the Engineers Without Borders Challenge

Skills

Programming

- Proficient in C++, F#, MATLAB and ARM Assembly
- Experience with Python, Rust and Verilog

Languages

- English (fluent), Urdu (native), Arabic (elementary)