

## EDUCATION:

### Imperial College London

*MEng Electronic and Information Engineering (EIE) – Graduated with Upper 2:1*

**July 2018, London, UK**

### Indian School Muscat

*Class XII CBSE Board: 97% (3<sup>rd</sup> highest percentage in Gulf countries. Top 5% in CBSE).*

**May 2014, Muscat, Oman**

- Passed IIT - JEE Mains.
  - SAT 2: 2400/2400
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## PROJECTS:

### Final Year Project: Drone State Estimation and Navigation using IP cameras

**April-June, 2018**

Successfully designed and implemented a cost-effective and complete system for real-time state estimation and navigation of a Parrot A.R. Drone using multiple (external) Internet Protocol (IP) cameras and LEDs in visible spectrum.

### Arm Software Development Intern ( 6 month / Industrial placement )

**April-Sept, 2017**

Successfully assessed feasibility of using LLVM Compiler toolchain for compiling Arms Architecture Specification Language. Also worked on reducing build/run-time for Compiled Model of Arm v8A architecture. Extended a compiler optimization using global integer range analysis for changing datatypes of variables and functions.

### C90 Compiler ( in C++ ) to MIPS Assembly

**November-December 2016**

Built a C90 compiler through the various stages – Lexing, Parsing, Target Code Generation for the gnu-mips ISA. Involved making OOP classes for each construct in the C90 Grammar specification, then making an AST and producing MIPS Assembly code while traversing the AST.

Learning Outcome -

1. Gained a good understanding of C grammar.
2. Gained a good understanding of MIPS ABI.

For more details on my projects, please see my [my Website](#).

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## HOBBIES:

- Chess tutoring: Tutor at Ladies Of Victories Primary School.
- Sports: Football, Chess, Table tennis, Badminton.
- Music, Volunteering.

## OLYMPIADS/AWARDS:

- Captain of Inter-school chess clusters – Winners (2012)
  - English Olympiad (2010) , Science Olympiad (2011) , Maths Olympiad (2011/2012)
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## SKILLS:

- Fluent in English and Hindi. Basic knowledge of Spanish.
- Programming skills: C, C++, Java, Python, Verilog, Matlab.
- IT proficiency: Excel, MS Word, PowerPoint.