Malhar Jajoo

53 CromwellRoad, SW72EHLondon E: malharjajoo@gmail.com | T: +44 (0)7708672409

EDUCATION

Imperial College London

July 2018, London, UK

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

Indian School Muscat

May 2014, Muscat, Oman

Class XII CBSE Board: 97% (3rd highest percentage in Gulf countries. Top 5% in CBSE).

- Passed IIT JEE Mains.
- SAT 2 2400/2400: Maths (800/800), Physics (800/800), Chemistry (800/800)

Projects:

For more details on my projects, please see my my Website.

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.

Hobbies/Interests

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

Olympiads/Awards

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

SKILLS & INTERESTS

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