

Malhar Jajoo

E: malharjajoo@gmail.com

Linkedin: [profile](#)

Online portfolio: [website](#)

EDUCATION:



Imperial College London (ICL)

Oct 2014 -July 2018

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



Indian School Muscat (ISM)

May 2010 - May 2014

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

- Passed IIT - JEE Mains.
- SAT 2 – 2400/2400

EXPERIENCE:



Graduate Software Engineer at Arm

Oct 2018-present

Currently working in the compiler team that maintains an executable software model of the Arm v8 Architecture Reference Manual (Arm ARM)



Final Year Project: Drone State Estimation & Navigation using IP cameras

Oct 2017-Jun 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) IP cameras and LEDs in visible spectrum.



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

Apr-Sept 2017

Successfully assessed the feasibility of using LLVM Compiler toolchain for compiling Arm's 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/functions.



Compiler for C90 language

Jan-Mar 2016

As part of a college assignment (individual), built a C90 compiler (in C++) through the various stages – Lexing, Parsing, Target CodeGeneration 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 (required understanding of MIPS ABI) code while traversing the AST.

For more details on projects mentioned above please see projects on my [My Website](#).

SKILLS:

- Programming skills: C++, Scala, Python, Verilog, Matlab, Robotics.
- Fluent in Hindi and English. Basic knowledge of Spanish.

HOBBIES:

- Chess tutoring – Was tutor at Ladies Of Victories Primary School. Captain of Inter-school chess clusters – Winners (2012) Captain of Inter-school chess clusters – Winners (2012).
- Sports: Football, Chess, Table tennis, Swimming.