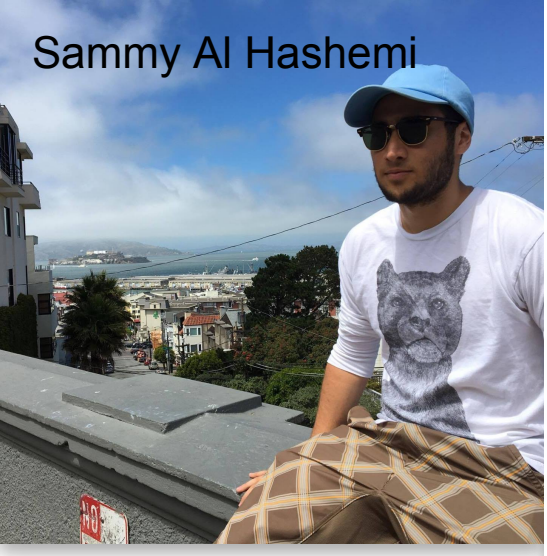
Sammy Al Hashemi



Device Characterization Engineer

Mississauga, Ontario, Canada

sammy.alhashemi@mail.utoronto.ca

(408)-908-9512

Skills

Python

70%

Java

60%

Angular

60%

40%

Languages

English

Work Experience

Device Characterization and Product Engineering Intern

Microsemi Corp.

July 2017 - Present

- Currently working on a collaborative team in the development of, test structures and designs that assess and characterize Microsemi FPGA products.
- Take part in weekly meetings update and collaborate with a subset of my team in India.
- Perform design creation, design simulation, and design testing at offsite vendors to fully characterize the component(s) currently working on.

Undergraduate Research Assistant *University of Toronto, AP_2D Labs*

May 2015 - Sept 2016

2016

- Worked with modelling language LAMMPS to simulate different behavior of different gaseous substances being introduced to a carbon substrate.
- This project furthered the understanding of the graphene production process, specifically if it can be synthesized at lower temperatures using AiMS instead of the normal, energy intensive, CVD process.

2015

- I assisted a graduate student in his research in a photovoltaics lab.
- Coded numerical eigensolvers to convey expected behaviour.
- Provided a detailed report on numerical methods recommended, as well as methods tried and implemented.

Education

University of Toronto

Bachelor of Applied Science and Engineering*Department of Engineering Science*

Sept 2014 - Present

Enrolled in the Engineering Science Program. I chose the Physics option which focuses on engineering design with major physics applications

cGPA: *3.56*

Mentor College,*High School*

2008 - 2014

High School Diploma

Projects

Robot Pipe Scanner

- Electromechanical member of a group building a robot capable of scanning a pipe for "radioactive waste" (black dots) and count the occurrences.
- Team meetings twice a week to update on our individual progress and collaborate on future plans
- It follow the following constraints:
    1. Be able to scan dots located anywhere of the circumference of the pipe and at any location along the pipe's length.
    2. Not scratch the pipe
    3. Include an emergency stop button
    4. To record the number of instances of black dots and record their location

Finder Thingy

- Personalized list of branches where I could look up the closest locations to me
- I used Alamofire to access the Google Maps/PlacesAPI
- De-structured the returned JSON to supply the user with direction information.
- This was an introductory app that really wasn't that great at all, but I'm proud of the fact that it was my first.

Personal Website

- Single-page application written in an Angular6 frontend
- Animations to liven up pages
- Uses complex angular routing features
    - data transfer with route parameters
    - route animations
    - route resolvers
    - lazy loading