

# Emmanuel Freddy

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## HIGHLIGHTS OF QUALIFICATIONS

- Experience programming in C/C++, Python, HTML, CSS, JQuery and Lua
- Experience using Git and Bash
- Familiarity with Ruby on Rails, Heroku, and SQL
- Developed code in C for Biomedical wearable sensor device – recipient of Ronald E & Jackie Phillips award for overall excellence from the ECE faculty at UofA

## EDUCATION

### Bachelor of Science, Electrical Engineering

(September 2013 – April 2017)

University of Alberta, Edmonton, AB, Canada.

Key Electives:

- Advanced Logic Design (ECE 410)
- Embedded Systems Design (ECE 312)

## COMPUTER & PROGRAMMING EXPERIENCE

- Extensive experience programming both software and firmware in C/C++
- Developed a personal website using HTML, CSS and JQuery
- Programmed a jingle generator using Python
- Created mobile game using Corona SDK and Lua
- Familiarity with Ruby on Rails, Heroku, SQL, Git and Bash

## RESEARCH EXPERIENCE

### Undergraduate Research Assistant

(September 2016 – December 2016)

Electrical Engineering Faculty at the University of Alberta

- Worked on isolating single nanowires using Dielectrophoresis; responsible for optimizing conditions for this experiment
- Synthesized nanowires and nanotubes, created discretized solutions and assisted senior members of the research team with their projects
- Initiated the use of nano-particle modelling software (COMSOL) to simulate the alignment of the nanowires

## **STUDENT LEADERSHIP EXPERIENCE**

### **Associate Vice President – Industry Relations**

(March 2015 – March 2016)

Engineering Students Society at the University of Alberta

- Organized one of the largest student run Career Fairs in Canada with 60+ companies in attendance to network with 4400+ Undergraduate and 1600+ Graduate engineering students while generating a profit greater than \$40,000
- Strengthened and developed new networks with companies, estimated and budgeted expenses, led a team of 40+ volunteers, marketed the event to companies across Canada, and prepared a suitable venue for the Career Fair
- Worked with a 7 member executive team to deliver services aimed at career and social growth of 4,400+ students

### **Vice President – Social and Event Organization**

(March 2015 – March 2016)

Indian Students Association at the University of Alberta

- Organized social and cultural events with 350+ participants, established communication channels with sponsors such as ATB-Financial and various restaurants in Edmonton
- Crucial member of an 8 member executive team responsible for facilitating a smooth transition for International students to the Canadian environment while strengthening the multi-cultural presence on campus
- Led a team of 7+ people in organizing events under high pressure while trouble shooting
- Handled social media accounts such as Facebook and Twitter, updated website content, initiated the use of Slack, Trello and Google Drive

## **EDUCATIONAL ACHEIVEMENTS**

Ronald E & Jackie Phillips Award, University of Alberta Academic Excellence Scholarship, Faculty of Engineering Academic Excellence Scholarship, University of Alberta India Centenary Scholarship, University of Alberta India First Year Excellence Scholarship, International Merit Scholarship, International Student Scholarship

## **OTHER INFORMATION**

- Participated in HackED 2016
- Fluent in English and Tamil
- Hobbies include playing guitar, ping pong and basketball

## **REFERENCES AVAILABLE UPON REQUEST**