

I love programming software and creating content. I bring a diverse experience in having created medical software, software for airplanes, and my learnings from Carnegie Mellon. I love taking ownership and contributing to the repositories I am part of. My heart is in my work.

**Academia:**

**Bachelors in Engg.- ECE(3.72/4.0) Completed:** March 2014- **Anna University, India**

**Master of Science-** Electrical and Computer Engineering (3.16/4.00) **Expected:** May 2017-**Carnegie Mellon University, USA**

**Skills:**

**Software:** Java, Android, Gradle, REST, NodeJS, ExpressJS, Javascript, Sqlite, MySQL, C, Arduino, FreeRTOS, Matlab, Camtasia

**Academic Projects:****All Available:**

- Online seat and room booking app for university on android
- Front end and Back end; Maintained normalized sqlite db of accesses;
- used Sensor api, google maps api, Camera, MediaPlayer api, Multimedia Messaging Service; Server using Apache Tomcat HTTP
- Options dependant on location; to integrate with google maps api.

**Car Configurator:**

- Iterative development; Client-Server architecture; Created GUI using JSP, Servlets and Java Beans
- Error Recovery using exception handling; Multithreading and Thread safe application programming
- Socket Programming; used MySQL for DB; General OOPs used for different car types, options and optionsets;
- Displays total cost based on options selected.

**Band app and Class Average :**

- Subscription to mailing list of a favorite band; fragments of band's famous songs, videos;

**Chatbot for Emirates IT Service Desk:**

- Android app based on Capio.ai api; Decision tree used;
- integrated with ServiceNow, Alexa Skill hosted on AWS;
- Real world problem at Emirates;

**Survivable Social Network on a Chip:**

- Emergency social network based on wifi enabled OSH; Used Node.js, Socket.io, Express, Grunt, Mocha
- Deployed using continuous integration with Shippable; used sqlite for database; ran server on BeagleBone black;

**Distributed IoT Network using PowerDUE nodes (Distributed Security System):**

- Distributed sensor nodes relaying power consumption data to server; Server switches devices on or off-optimization; Novel power saving solution implemented
- wrote wifi driver for ESPRESSIF module

**Work Experience:**

**MEL Systems and Services | Chennai, India- Project Engineer    August 2014 – October 2015**

- Reported to President; software engineer for embedded software; converted failure test bench- manual logging to automated failure logging; Integrated OLED module, camera module into product and interfacing code written; prototyping
- Management duties included coordinating, meeting with costing, customer, mechanical, electronics, software, works, IT and marketing teams
- Regularly conveyed project details to officials of National Importance-for the Indian Air Force.
- Additional duties include obsolescence management

**Rehabilitation Bio-engineering group, IIT Madras| India**

**March 2014 - August 2014**

- Android and Arduino development for startup Sundaram Medical Devices- UI for android patient monitoring system
- Conducted research into yoga, driver fatigue using technologies developed in-house.

## VAMSAVARDHANA VIJAY

Phone: +1-719 493 5219 E-mail: [vvijay@andrew.cmu.edu](mailto:vvijay@andrew.cmu.edu)

Github: <https://github.com/vamsavardhana>

linkedin: [in.linkedin.com/pub/vamsavardhana-vijay](https://in.linkedin.com/pub/vamsavardhana-vijay)

### Achievements:

#### Professional:

- **ELCINA EFY** award for outstanding achievements in '**Excellence in Innovation**' for year 2014-2015 for DVR-Digital Video Recorder project for Mirage-2000 aircraft.(was Project Engineer i.e. responsible for project)
- Awarded best Project Award from **Caterpillar** out of 236 project groups for capstone project- my tech blog- <http://pentacopter.blogspot.com/>
- Chosen as Software Engineer for RFP feasibility assessment team. 3 onsite visits.
- Customized product while onsite, bulk order signed following week (13 units delivered).