JONATHAN FRANCESCO RAJ

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PROFILE

A creative, hard working and result oriented Computer Science and Electrical Engineer looking for a full time job in Software Programming and Development, where I can be given an opportunity to make a difference to the organization while honing my own skills.

SKILLS

- Java
- C
- C++
- HTML
- CSS
- Knowledge of Python
- Robot Operating System (ROS)
- Familiarity with Hadoop and MapReduce
- Basic knowledge of MATLAB
- Experienced with both Windows and Linux

INTERNSHIP

- Worked on Understanding and Maintaining Country-Wide Networking Systems at Oil and Natural Gas Corporation (O.N.G.C) - May 2012

EDUCATION

- University at Buffalo, The State University of New York — Master of Science (M.S) Computer Science and Engineering, 2015

- SRM University, Chennai, India - Bachelor of Technology (B.Tech), Electrical and Electronics Engineering, 2014

PROJECTS

- Worked on a project to implement Vision based localization and mapping using a Quadrotor drone in a GPS denied environment using a single monocular camera to perform Large Scale Direct Simultaneous Localization and Mapping (LSD SLAM) using Robot Operating System (ROS)

- Worked on a project to implement Hough Transform to detect circles using Python and OpenCV 2 by using Gaussian Filter and Canny Edge Detector for pre-processing the image

- Worked as part of a team to design and implement a Medical Emergency Real Time Alarm System using GPS to detect the location of an emergency, and find the nearest hospital from a database, and then send the co-ordinates to the hospital using a GSM Module

- Worked as part of a team to design an Automatic Door Opener for the Handicapped which used RFID tags to detect users' proximity to a door and then open it using a Servo Motor (http://weopendoors.webs.com/)

- Worked on a project to implement Priority Scheduling and Multi-Level Feedback Queue Scheduling, and Virtual Memory on PINTOS Operating System - an instructional operating system framework for the 80x86 architecture

- Acquired knowledge on design, analysis and implementation of Sequential and Parallel Algorithms on popular models including the RAM, PRAM, Array, Ring, Mesh, Tree, Pyramid and Hypercube under Professor Russ Miller

- Studied algorithmic techniques of divide and conquer, and dynamic programming, along with Time, Space and Processor complexities of solutions