Mohit Garg

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PROFILE

Currently seeking a full time job opportunity to compliment theory learned at the university level. Solid communication and leadership skills with a background in computer science. Technically proficient in C/C++ programming.

EDUCATION

Binghamton University, State University of New York
Master of Science, Computer Science — expected May 2015
GPA – 3.84/4.0
Relevant Courses – System Programming, Emerging Platforms, Advanced Object Oriented Programming

SRM University, Chennai, India
Bachelor of Technology, Information Technology — Aug 2008 - May 2012
CGPA – 8.6/10 (First class with distinction)
Relevant Courses – Operating Systems, Embedded Systems, Programming in Java

TECHNICAL SKILLS

Programming : C, C++,Python Shell Scripting
Web Skills : HTML, CSS, Javascript, Jquery
Embedded Development Boards : Arduino,ARM Mini 2440, 8051 kits.
Other : MySql,PostgreSql, Windows Desktop Application Development

EXPERIENCE

Graduate Research Assistant
The Research Foundation for SUNY, Binghamton, New York — Feb 2014 –present

- Strategized in design and development of Nano Bio Manufacturing Consortium sponsored ultra low power portable human performance monitoring system
- Collaborated with teams in UC Berkeley and i3 electronics

Human Performance Monitoring System — Feb 2014 - present

- Brainstormed with the team in circuit design process
- Developed the firmware using the APIs provided by the manufacturer of the SOC
- Created a test setup to validate the firmware and the circuit design
- **Technologies used :** Bluetooth Low energy SOC , C programming

Post Graduation Diploma in Embedded System Design
CDAC , under Govt. Of India – Hyderabad, India — Aug 2012 – Feb 2013

- Participated in skills development training after getting selected in all India level entrance exam for PG -Diploma course in CDAC (Centre for Development of Advance Computing)
- **Technologies learned:** Micro-controllers Development using ARM,AVR ; Real Time Operating Systems ; Linux Device Driver Programming ; Andorid Programming

Porting of uCos Operating System on an ARM7 Board — Jan – Feb 2013

- Conducted cross-compilation of the OS for a specific arm7 board
- Accomplished this project during the PG diploma course
- **Technologies used :** ARM7 board , uCos2 Source Code, Keil

Internship at System Platforms Research Laboratories
NEC Corporation, Japan — Jun – Aug 2011

- Visited NEC, Japan to understand the Architecture and Concepts of IEEE1888/FIAP (a protocol for energy management for large Infrastructure) and to implement the same in SRM University
- **Technologies used**:JAVA, Apache-Tomcat Server, Axis2-web services engine, PIC based Sensors
  - *"Survey on Architecture and Protocols for Energy Management System"* , The Institute Of Electronics, Information And Communication Engineers, Technical Report
  - *"Blackout Monitoring and Analysis at Building in India using FIAP"* , The Institute Of Electronics, Information And Communication Engineers, Technical Report

O.PROJECTS

Implementation of Standard Template Library(STL) Components in C++ — Sep – Dec 2014

- Implemented Deque with C++ like features using C Macros
- Implemented Map using skiplist
- Implemented Array with multi-dimensional support using Variadic Templates

Concurrent web-servers based on various Linux IPCs — Oct – Dec 2013

- Developed multi-threaded web server using networking APIs
- Developed other concurrent servers using POSIX IPCs - Shared Memories,FIFOs
- Completed as part of the system programming course
- **Technologies used :** C , gdb, Linux APIs