

EDUCATION

UNIVERSITY OF WISCONSIN-MADISON | M.S COMPUTER SCIENCE

August 2015 - December 2016 (Expected) | Madison WI, U.S.

- Focusing on research and development in Operating Systems, Computer Networks and Internet of Things.
- Developing **Smart Shoes** for use in Healthcare, Fitness and Virtual Reality applications at *Internet of Things Lab*
- **Coursework:** Operating Systems, Introduction to Computer Networks, Machine Learning

BITS - PILANI, GOA CAMPUS | B.E ELECTRONICS AND INSTRUMENTATION

August 2006 – May 2010 | Goa, India

- Concentrated on projects and internships in the areas of Embedded systems' design and development.
- Got involved in the PSoC club which was newly founded and contributed to designing training material which is used by Cypress Semiconductor as the official Lab Book for the University Alliance Program.
- **Coursework:** Embedded System Design, Medical Instrumentation

EXPERIENCE

QUALCOMM | SENIOR ENGINEER

July 2012 – July 2015 | Hyderabad, India

- As a member of Wireless Connectivity group was involved in design and development of firmware and Linux device drivers for Qualcomm's wireless chipsets.
- Primarily contributed to Qualcomm's opensource **Prima** driver and was the maintainer of data path.
- Collaborated with the Linux community to engineer the regulatory framework in Prima driver.
- Developed good understanding of new and upcoming wireless protocols and standards like WFA's - WPS, P2P, WMM and IEEE 802.11ac/p

TEAMF1 NETWORKS | SOFTWARE ENGINEER

May 2010 – June 2012 | Hyderabad, India

- Design and Development of Linux device drivers for 802.11 Wireless SoCs in Enterprise Routers.
- Worked on securing the WiFi Alliance's 802.11n certification for interoperability.
- Involved in development of a 802.11r solution independent of the available open source alternatives.
- Implemented the RSTP functionality for Access Points.

HTCONDOR | STUDENT INTERN

September 2015 – Till Date | Madison, Wisconsin

HTCondor is an Open-Source software for coarse-grained distributed parallelization of computationally intensive tasks, it is developed and maintained by Center for High Throughput Computing in the Department of Computer Sciences at UW-Madison.

- Design and Development of Regression Test Framework in Perl and C.

BITS - PILANI, GOA CAMPUS | PROFESSIONAL ASSISTANT

January 2010 – May 2010 | Goa, India

- Professional Assistant for the course - Analog Electronics(INSTR C364)
- Responsibilities included overseeing and grading Lab sessions
- Involved in designing assignments for the students

CYPRESS SEMICONDUCTOR | Co-Op

July 2009 – December 2009 | Chennai, India

- Designed a Blood Pressure Monitor reference solution using Cypress' SoCs
- Involved in PCB design and development
- Developed BP calculating algorithms based on the current research and coded them in C

ACADEMIC PROJECTS & RESEARCH

DESIGN AND DEVELOPMENT OF BLOOD PRESSURE MONITOR

Jan 2010 – April 2010 | Goa, India

Worked with **Aniket Sachan** and **Vikash Sharma** under the guidance of **Sarita Kumari**. We concentrated on developing simulation of circuits and filters involved in the designing of a BP Monitor so that we can improve upon them. Another aspect of this project was to do a detailed analysis of the available BP calculating algorithms and implement them in Matlab.

DESIGN AND VERIFICATION OF SAFETY CRITICAL SYSTEMS

Jan 2010 – April 2010 | Goa, India

A survey of the established standards for designing safety critical systems guided by **Dr. K.R Anupama**.