

# Mihir Shete

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## SKILLS

### PROGRAMMING

C • Lua • Shell • Matlab  
Octave • Python • R  
Assembly •  $\text{\LaTeX}$

### OTHERS

802.11 • Networking •  
Linux Device Drivers •  
HTML • CSS

## COURSEWORK

### UNDERGRADUATE

- Embedded System Design
- Medical Instrumentation
- Digital Electronics and Computer Organization
- Microprocessor Programming and Interfacing
- Analog Electronics (*Professional Assistant*)
- Computer Programming I/II
- Probability and Statistics
- Control Systems

### QUALCOMM

- ARMv8 Architecture and Design

## INTERNSHIPS

**Cypress Semiconductor**  
(July 2009 - December 2009)  
**Mahindra & Mahindra**  
(June 2008 - July 2008)

## PROJECT LINKS

### QUALCOMM

(*Opensource contributions only*)

- Prima Wlan Driver
- Qualcomm MSM Kernel

### BITS-PILANI, GOA

- Design and Development of Blood Pressure Monitor
- Safety Critical Systems and Design

## RECOGNITION

- 23<sup>rd</sup> in the Merit List prepared by Maharashtra State Board for Secondary and Higher Secondary Education
- 921<sup>st</sup> in All India Engineering Entrance Examinations

## EDUCATION

### UNIVERSITY OF WISCONSIN-MADISON | M.S COMPUTER SCIENCE

August 2015 - Till Date | Madison WI, U.S.

Concentrating on research and development in Computer Networks and Systems.

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

August 2006 - May 2010 | Goa, India

Cum. GPA 8.00/10

- Concentrated on projects and internships in the areas of Embedded systems' design and development.
- As a member of PSoC club which was newly founded, was involved in designing training material which is used by Cypress Semiconductor as the official Lab Book for the University Alliance Program.

## 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 drivers for Qualcomm's wireless chipsets.
- Primarily contributed to Qualcomm's opensource **Prima** driver and was the maintainer of data path.
- Worked with the Linux community to design and develop 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 and Access Points.
- Developed an excellent understanding of 802.11/a/b/g/n/i/r.
- Worked on securing the WiFi Alliance's 802.11n certification for interoperability.
- Involved in design and development of 802.11r solution independent of the available open source alternatives.
- Designed and Developed the RSTP functionality for Access Points.

## 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**.