Mihir Shete

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SKILLS

PROGRAMMING
C • Lua • Shell • Matlab
Octave • Python • R
Assembly • 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

- 23rd in the Merit List prepared by
  Maharahstra State Board for
  Secondary and Higher Secondary
  Education
- 921st in All India Engineering
  Entrance Examinations

EDUCATION

UNIVERSITY OF WISCONSIN-MADISON
M.S Computer Science
Ausgust 2015 - Till Date | Madison WI, U.S.
- Concentrating on research and development in Computer Networks and Systems.

BITS - PILANI, GOA CAMPUS
B.E(Hons.) Electronics and Instrumentation
Ausgust 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
- A member of Wireless Connectivity group, I was involved in design and development of firmware and Linux drivers for Qualcomm's wireless chipsets.
- I primarily worked on 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**.