

SHRADDHA PHADNIS

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EDUCATION

Northeastern University, Boston, MA

GPA: 3.95/4.0

Sept 2016 – Aug 2018

Master of Science in Computer Science

Relevant Courses: Algorithms, Web Development, Computer Systems, Robotic Science and Systems

Bangalore Institute of Technology, Bangalore, India

Sept 2007 – June 2011

Bachelor of Engineering in Information Science and Engineering

PROFESSIONAL EXPERIENCE

Qualcomm (San Diego, CA USA 92121)

07/09/2018 – Present

Staff Engineer

- Involved in the development of NR 5G modem software physical layer1 acquisition and idle mode features by translating system requirements into software implementation with the understanding of 3GPP standards.
- Design and Implement features for sub6 and millimeter wave using embedded C.
- Responsible for integration of software with other modules including RF, firmware, L2 layers of NR5G modem protocol stack.
- Involved in NR 5G feature bring up, log analysis, customer issue support.

Qualcomm, San Diego, USA

May 2017 – July 2017

Software Engineer Intern

- Developed a Bluetooth Generic Attribute Profile (GATT) based solution prototype to transfer the audio URL data (ex: YouTube or Spotify URL) over Bluetooth and play the appropriate content over Bluetooth speaker with secure transmission of data.
- The Project involved developing a Linux application running on an x86 host machine, Qualcomm's 410c Snapdragon board and an Android application both capable of performing Bluetooth GATT client/server roles.
- Built an android notification feature for the user as an extended use case for the project.

Samsung R&D Institute, Bangalore, India

Oct 2013 – Aug 2016

Lead Engineer

- As a Linux kernel and device driver subject matter expert I developed Audio device drivers including Audio bring up, feature development and debugging/support by analyzing the schematics of the audio codecs (MSM audio codec chipsets), processor and understanding the hardware limitations.
- I was also involved in HAL (Hardware Abstraction Layer) modifications, Audio tuning using Qualcomm's proprietary tools for 15+ Samsung flagship/derivative products based on Qualcomm Snapdragon chipsets.
- Developed and integrated audio features like voice call, VoIP call, Bluetooth audio, Noise and echo cancellation at Samsung's South Korea facility in collaboration with diverse team of hardware engineers.
- I was also POC for many Samsung products at Samsung's headquarters Seoul, South Korea and managed many time critical projects.

Mistral Solutions Pvt Ltd, Bangalore, India

July 2011 – Sept 2013

Senior Design Engineer

- Designed and developed Sensor and audio drivers for Android Phones based on Nvidia's Tegra T20 platform.
- Worked with interrupts, interrupt handlers, process scheduling using Mutex, semaphores, Spinlocks.

TECHNICAL SKILLS

- **Language:** C, Python
- **Hardware Platforms:** ARM, Tegra
- **Development Platforms:** GitHub, Android Studio, Sublime, Vim, Eclipse, Perforce, Jenkins, Gradle
- **Network Protocols:** SPI, I2C, McBSP, SLIMbus, NR5G
- **Modem:** Qualcomm SDX series
- **Audio framework:** ALSA (Advanced Linux Sound Architecture)

ACCOMPLISHMENTS:

Award for the outstanding performance at Qualcomm 5G Modem team.