

# MANASA NAGARAJU

I am passionate about technology and innovations. I love to learn and apply my knowledge at work to create beautiful, cutting edge and market leading product. I am motivated to work with a driven team where I can make a significant impact.

## PROFILE

- Currently a graduate student in Santa Clara University actively seeking Summer Internship -2016 opportunities.
- 5+ years of work experience in developing applications for mobile and embedded platforms
- Experienced in VoIP protocols and GUI development
- Authorized to work for any employer in USA[H4 EAD]

**Languages:** C, C++

**Network Protocols:** SIP, RTP, BFCP, TCP/UDP

**Tools:** Visual C++, QT, Eclipse, Wireshark, GitHub, IntelliJ, Perforce

## EXPERIENCE

**Samsung – Senior Software Engineer, Bangalore, India**

**April 2011 - May 2014**

**Senior Software Engineer, Dallas, TX, USA**

**6 months in 2013**

Worked as a part of commercialization team for Samsung feature phones ([S150g](#), [Rugby](#), [T199](#), [S425g](#), [S390g](#)) for emerging countries and prepaid market on **AT&T, T-Mobile and Tracfone**.

- Programmed in C and C++ under Samsung proprietary OS environment
- Developed and customized interface layer for prepaid engine library
- Debugged issues related to messaging, call and browser modules using logs & Trace32
- Developed and setup test environment for the devices and worked with a team to certify
- Developed UI for Messaging application using Samsung Space Framework
- Spearheaded the device certification test process for Samsung Tracfone devices
- Researched feasibility of Samsung wearable platform and built a prototype

**Tata Elxsi – Senior Software Engineer, Bangalore, India**

**Nov 2008 - March 2011**

Worked for development and customization of VoIP protocols on [Polycomm](#) and [Clearone](#) audio/video conference solutions.

- Design and Implementation of Centralized Conference Control Protocol on Polycom HDX for interoperability with Microsoft Lync Servers
- Porting of SIP Stack on VxWorks by applying the required platform specific changes
- Secured voice communication over network using TLS and SRTP for Clearone MaxIP.
- Development of GUI for Call features in desktop based VoIP video phone using Qt
- Wrote unit and functional test cases and performed interoperability testing with various SIP servers
- Design and Development of complete Binary Floor Control Protocol stack
- Mentored a group of 5 engineers who were new to the project

## EDUCATION

Santa Clara University, CA, USA

MS in Computer Science

2015 - Now

Completed Courses: Operating Systems (COEN 283), Algorithms (COEN 279)

Current Courses: Web Programming (COEN 276), IoT (COEN 296)

PES College of Engineering, India

BS in Computer Science

2004 - 2008

WES GPA: 3.5

## HOBBIES

- Oil Painting

- Pencil Sketching