

SURABHI.S.TAMBE

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EDUCATION

University of Maryland, College Park, United States

Expected: May 2018

Masters in Telecommunications Engineering (MS-ENTS)

Veermata Jijabai Technological Institute (V.J.T.I), Mumbai, India.

May 2016

Bachelors of Technology in Electronics and Telecommunications Engineering

GPA 7.74/10

TECHNICAL SKILLS:

Networking Skills: TCP/IP, IPV4, IPV6, UDP, DNS, HTTP, ARP, DHCP, NAT, ICMP, RIP, OSPF, BGP, EIGRP

Programming languages: C++, Java, Python (intermediate level).

Microprocessors and microcontroller: 8085, 8086, 8051

Softwares: Eclipse IDE, MATLAB, Simulink, Arduino UNO, MS-Office, Analytic Solver platform for MS-Excel.

RELEVANT EXPERIENCE

Centre for Excellence in Telecom Technology & Management (CETTM), MTNL, Mumbai, India

June 2014

Summer Trainee

- Worked on: OSI layers, PSTN overview, Mobile technology, broadband architecture, sub-netting modules.
- Hands-on training in implementation of IP addressing technology.
- *Certification in Converged Communication technologies.*

ACADEMIC PROJECTS

Design & implementation of a Java based distributed networking application

Oct 2016-Dec2016

- Built a Client – Server model for User Datagram Protocol with Socket Programming using JAVA API's, for file transfer and displaying requested temperature measurement values sent by the Server to the Client after a successful Integrity check.
- Implemented a reliable data transfer protocol technique over the unreliable User Datagram Protocol at the transport layer, where reliability is instigated by a defined data transfer protocol- Stop & wait algorithm structure that integrates use of integrity check, timeout procedure and retransmission.

Truly Responsive Image processing API service

Dec 2015- April 2016

Final year project

- Python enabled API service for Client and Server will reduce data consumption by detecting screen size, scaling base image, caching it, and serving the responsive image by reducing no. of pixels for various viewport sized devices.
- Used concepts of HTML, CSS and SQL for database caching and service provision.

People Tracker: a device for tracking missing people in crowded areas

Jan-2015

- Conceived and designed a prototype of a tracking device using GSM SIM300 module, SIM card activation and tracing using AT commands for sending and receiving SOS text messages to/from GSM modem which returns approximate co-ordinates of a lost entity to estimate its location.

Color detection and Reproduction module

Dec-2014

- Conceptualized and developed a zero-cost virtual color sensor with 95% accuracy using Image processing toolbox in MATLAB & Arduino UNO controlled hardware system which can be used in dyes and paint industry.

TECHNICAL PAPER PUBLICATION

“Understanding Virtual Local Area Networks”

July 2015

International Journal of Engineering Trends and Technology (IJETT)

www.ijettjournal.org. published by Seventh Sense research group.

- Provides insights on providing segmentation on large LAN network to reduce traffic congestion.

EXTRA CURRICULAR ACTIVITIES & LEADERSHIP EXPERIENCE:

- Student Ambassador @TSAN (Telecommunication Student & Alumni Network) at University of Maryland. **2016-2017**
- Volunteered for *Teach for India* to conduct one-day workshops on English grammar and Fundamental Math using visual aid at several schools. **Dec 2013- Jan 2014**
- Event Manager, Student Co-ordinator and Department head for organizing various cultural activities at Undergraduate institute –VJTI, Mumbai, India **Dec 2012- Dec 2013**