**DEEPIKA SHASTRI**

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**EDUCATION**

**University of Maryland-College Park** GPA-3.7/4

Masters of Science in Telecommunications Fall 2016- Spring 2018

**Technical Domain:** AWS/PCS System Implementation, Digital Communication Systems, Telecommunications Marketing Management, Networks & Protocols I, Wireless OFDM Systems**,** Networks & Protocols II,Cell Site Design and Components, Antenna & Propagation, GSM, Wireless Communication

**Atria Institute of Technology,** Bangalore

Bachelor of Engineering in Telecommunications 06/15

**PROJECTS**

**Network Deployment for GSM, LTE & WCDMA Systems** Fall 2016

* Designed and simulated a cellular network deployment of GSM, LTE and WCDMA technologies for the city of Washington D.C and surrounding suburbs using Mentum Planet software
* Completed the deployment simulation in four phases- Preliminary deployment, Fine tuning, LTE deployment and Interference analysis using Poseidon
* Learned to balance resources with coverage quality as required in real world deployments, for 25 base stations, followed by a LTE deployment for 3 base stations

**Performance evaluation of 16 QAM digital communication scheme using Simulink** Fall 2016

* Performed System level characterisation of 16- QAM communication system using Simulink and Gray Encoding to map the symbols
* Evaluated SER and BER for different channel SNR by calculating tighter upper bound
* Compared theoretical and practical results were against each other for sending 1 million symbols and found that they match each other till 15db of SNR

**Marketing Plan Elements** Fall 2016

* Performed situation analysis of the company’s current marketing environment (5 C’s) & evaluated the current marketing program employed in the organization
* Employed problem solving methods in marketing operations to effectively utilize a company’s marketing resources and activities

**Bharat Electronics Limited** Bangalore, India

**Design of an Automated Test System for a Duplex Filter (1350MHz to 1850 MHz)** 01/15

* Reduced manual effort and time required to calculate the 1dB bandwidth, insertion loss for the range of frequencies
* Learnt GPIB bus interface implementation for the external instrument control
* Operation of a Network Analyser and Duplex Filter

**INTERNSHIP EXPERIENCES**

**Nokia Networks** Bangalore, India **Technical Intern** 04/15-01/16

* Performed Sanity Testing, Regression Testing of 2G & 3G BTS software and feature testing
* Built Automation Framework for test cases and log collection using Python
* Prepared test environment as per test specifications and analysed logs

**TECHNICAL SKILLS**

* Mentum Planet, Wireshark, Ride, Robot Frame Work, MATLAB, Simulink, Lab View, Visual Basic
* Programming languages: C and C++, Python
* Wireless Protocols: TCP/IP, 802.11 b,g,a and n
* Microsoft Office (Excel, Power Point, Word)

**WORK EXPERIENCE**

Upward Bound/Upward Bound Math & Science 12/16

* Provide academic tutoring (individual and small group) to students at a local target school
* Support professional lecturers’ instruction during Academy classes
* Respond to tutor requests, effectively organize and manage tutoring schedule to ensure that student needs are met

Placement Co-ordinator of Telecommunication Department of 65 students 07/14-07/15

* Documented all program activity, tracked student placement in jobs and internships and presented periodic reports

to the Program Director

* Developed and coordinated student workshops on resume writing, interviewing skills and more

Sergeant at ARMS of the Rotaract Club (District E, 3198) - A youth wing of Rotary Club 06/15-06/16

* Prepared the agenda for the weekly meetings
* Provided administrative and programmatic support to 10 club events and 35 projects