# Laveena B Dulani

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## Education

**University of Maryland, MS** **Expected May 2018**

Master of Science in Telecommunications Engineering **GPA 3.2**

Major: Computer Networking

**Courses:**

**Technical Core Courses:**

Networks and Protocols 1.

Introduction to Digital Communication Systems.

Networks and Protocols 2.

Introduction to Cellular Communication Networks.

**Business Courses:**

Decision Support Methods for Telecom Managers.

The Economics of International Telecommunications Policy and Regulation.

University of Mumbai, BE Graduated, July 2016

Bachelor of Engineering in Electronics and Telecommunication **GPA 3.3**

#### Technical Skills

**Operating Systems**: Windows 8, Windows 10, Raspbian.

**Languages:** C, Java, Embedded C, Python.

**Software:** Eclipse IDE, MATLAB, SCILAB, NetSim, PuTTY, SSH, Arduino IDE, IE3D Zealand, VNC,

Wireshark, Keil uVision, Microwind, PSpice, Xilinx, MS-Office

**Computer Networks:** OSI model, TCP/IP Protocol, UDP, DHCP, DNS, HTTP, Socket Programming, Ipv4, Ipv6.

**Certifications**: Currently Pursuing: CCNA, RHCSA.

### Project Experience

**Reliable Data Communication Between Two Hosts Using User Datagram Protocol (UDP). November 2016**

* Developed a Client-Server based application that continuously exchanges UDP data packets.
* Integrity of data is ensured by a user defined algorithm.
* Different Response codes are generated by the server depending upon the request message received.
* Data Packets are exchanged through the Java UDP sockets.

**Remote Patient Health Monitoring System Using Raspberry Pi. July 2015 - April 2016**

* Recognized and appreciated in a national newspaper DNA, India dated 09/24/2016.
* Designed a Multi Parametric Health Monitoring System intended for bed ridden patients.
* Data Acquisition System obtains the health parameters like temperature, pulse rate.
* Health parameters are wirelessly transmitted from patients’ terminal to the Doctors’ terminal using the Internet of Things concept.
* Patient side terminal can be remotely controlled from the Doctors end as needed.

**Effect of different dielectric substrates on the performance parameters of a**

**microstrip patch antenna. January 2015 - April 2015**

* Researched on the different techniques used to fabricate an antenna.
* Obtain the dimensions, calculate, design, troubleshoot, optimize the antenna design on IE3D Zealand.
* Designed and optimized designs for 4 different substrates like FR4, Bakelite, RT Duroid, RO4003 for a resonant frequency of 2.4GHz ISM band based applications.
* Studied and formulated a comparative study of antenna parameters like radiation pattern, s-parameters, radiation efficiency of the design, bandwidth, return loss, gain of the antenna, dependency of the gain on the frequency and evaluate usability of the design in practical applications.

**Alcohol Detector using 8051 Microcontroller July 2014 – October 2014**

* Aimed at developing a prototype for law enforcement, to prevent accidents by drivers under the influence of alcohol.
* Developed a breath analyzer circuit and code to obtain and process gas sensor values for different gaseous exposures.
* Configured peripherals to the processor, evaluate the code, obtained results on display devices, troubleshoot in case of ambiguous results.
* Prepared a comprehensive report explaining the observations and applications the antennas are best suited for.

**Achievements and Involvements**

* Participant, Technical Paper Presentation organized by Institution of Electronics and Telecommunication Engineers (IETE). **October 2015**
* Project with CII TechConnect with Emerson India **April 2015**

**Activities**

* Member, IEEE VESIT, ISTE VESIT **July 2013- May 2016**
* Participant, Robotics Workshop at Praxis VESIT **July 2013**

##### Student Council 2013-2016

* In charge, Winner, runner up, best sportsperson, team leader and participant of many sports, cultural events.
* Head of Word Wars team comprising of 12 people. Organized, coordinated, managed events over a period of two years.