Lakhan Abichandani

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Present Address: 4714 Cherokee Street, Apt 101, College Park, 20740

EDUCATION

University of Maryland, College Park **Expected graduation:** May 2017
Master of Science, Telecommunications Engineering **GPA:** 3.0
Coursework: Networks and Protocols, Cybersecurity-Cryptography and Network Security, AWS/PCS System Implementation

Vivekanand Education Society's Institute of Technology (Mumbai University), India **Graduated:** July 2015
Bachelor of Engineering, Electronics and Telecommunication **CGPA:** 9.0/10
Coursework: Microprocessors & Microcontrollers, Computer Controlled Networking, Neural Networks & Fuzzy Logic

TECHNICAL SKILLS

Languages:	Java, Python, C, C++
Networking:	TCP/IP, IPv4, IPv6, DNS, HTTP, RIPv1, RIPv2, OSPF, BGP, DHCP, UDP, STP, ARP, CSMA/CA, CSMA/CD, Subnetting, Static Routing, Distance Vector Protocol, Link State Protocol
Security:	Malware, Phishing, Cryptography, Internet Security, Ciphers, DES, AES, Ethical Hacking
Applications:	Microsoft Office (Excel, Word, PowerPoint), AutoCAD, Mentum Planet, WireShark, Arduino UNO
Exposure to:	HTML, PCB design, Adobe Photoshop, MATLAB, LINUX, Android App development (Training – Courseras)

ENGINEERING PROJECTS

Distributed Networking Application using Socket Programming using Java **Fall 2015**
Group Project, University of Maryland-College park, 2015

- Designed a secure communication link between the client and server using User Datagram Protocol (UDP) and the messages were sent back and forth with 100% success.
- The integrity of the message content was maintained by encrypting and decrypting, using RC4 Stream Encryption Algorithm.

Simulation of Cell Site Deployment and Network Coverage using Mentum Planet Software **Fall 2015**
Group Project, University of Maryland-College park, 2015

- Successfully deployed 30 base stations in Washington DC and nearby areas using Mentum Planet.
- Regulated antenna statistics like down tilt, azimuth, and antenna power etc. to fulfill the coverage requirements.
- The University of Maryland College park campus was given complete coverage by LTE-FDD deployment, using just 3 base stations to provide the required 5Mbps speed throughout.

Density based Traffic Control System with Advanced Monitoring Techniques **Spring 2015**
Project Co-leader, Vivekanand Education Society's Institute of Technology (Mumbai University), 2015

- Determined the traffic density using IR sensors and the amount of time each traffic signal was on 'Green' with a budget of $80 but using only $11 for the project.
- Received the best project award at the ShowSmart 2015 and INNOVATIONS 2015.

Arduino based Shadow Alarm with GSM Interface **Fall 2013**
Project Leader, Vivekanand Education Society's Institute of Technology (Mumbai University), 2013

- Collaborated with a group of 4 students and the project advisor to make a security system which is one the cheapest of its kind; collected scrap material which decreased the average cost of the project from $150 to $6.
- Awarded the best project award at ShowSmart 2013, Mumbai, India.

PUBLICATIONS AND WORKSHOPS

- **Published:** "Density Based Traffic Control System with Advanced Monitoring Techniques", International Journal of Application or Innovation in Engineering & Management, March 2015
- **Published:** "Arduino based Shadow Alarm with GSM Interface", Journal of Emerging Technologies and Innovative Research, August 2015
- Attended the level 1, level 2 Cyber-Security workshop organized by Praxis in August 2011.
- Attended the level 1 Ethical Hacking workshop organized by Praxis in August 2011.
- Attended the level 1, level 2, level 3 Robotic workshop organized by SRT at VJTI, Mumbai in October, 2012

LEADERSHIP

- Currently the Vice – President of the University of Maryland Table Tennis Club **Spring 2016 – Fall 2016**