**PALASH ASHOK BHATIA**

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Computer Science Graduate student at New Jersey Institute of Technology seeking Summer Internship opportunities starting May 2017.

# Education

**Masters of Science- Computer Science** *Graduation: May 2018 (Expected)*

New Jersey Institute of Technology, Newark, NJ GPA 3.3/4.0

**Bachelor of Engineering- Electronics and Telecommunication** *Graduation: May 2015*

Maharashtra Institute of Technology, Pune, IND First Class with Distinction

# Relevant Courses

Cognitive Computing, Internet and Higher Layer Protocols, Java Programming, Data Structures and Algorithms, Operating System, Database Management and System Design

# Technical Skills

* Programming Languages: C, C++, Java, Python, SQL, Embedded C, Assembly, VHDL.
* Softwares: Eclipse, Netbeans, Wireshark, Matlab, Atmel Studio, Xilinx.
* Operating Systems: Microsoft Windows, Linux.
* Tools: FFMpeg, Yacc, Lex, GDB.

# Certification

Microsoft Technology Associate in Networking Fundamentals  *February’15*

* Gained knowledge about Local Area Networking, OSI Model, Wireless Networks, Internet Protocol, IPV4, IPV6, Implementing TCP/IP in the Command Line, Services like DHCP and Remote Desktop, Routing, Network Infrastructure and Hardware Services.

# Academic Projects

**Graduate Coursework:**

*Network based Web Proxy to handle HTTP, FTP requests: September’16- December’16*

* Devised a proxy complying to the HTTP/1.1 using Socket Programming developed in C using AFS Linux System. The Proxy was mutated to perform protocol mediation that is, when a browser receives a FTP request the proxy will parse the request and perform the FTP transaction by procuring the file from the server and return it as a HTTP response.

*Hospital Management System: September’16- December’16*

* Developed a GUI based interactive application which simulates the working of a hospital with essentials such as Patient and Doctor Records, Nurse and Ward Boy Information as well as Billing and Room/Ward details. The technologies used were Java and MySQL.

**Undergraduate Coursework:**

*Intruder Detection using Face Recognition****:*** *August’14-May’15*

* Formulated real time facial detection and recognition standalone system using Principal Component Analysis, Harr based Cascade Classification, Eigenvectors and Eigen faces, K-Nearest Neighbors and Microcontroller programming. Algorithm developed and implemented in Python using OpenCV Library. Accomplished **88%** success in real time facial recognition.

*Image Processing based Vending Machine: December’13-May’14*

* Implementation of an automated vending machine using Networking and Image Processing techniques. Coin recognition algorithm developed and implemented using Matlab. Micro-Controller based software development in Embedded C using Atmel Studio.

# Work Experience

***Systems Integration Engineer*** *at Dhupar Brothers Trading Pvt Ltd: June’15 – June’16*

* Designed home automation solutions by integrating high-performing subsystems for alarms, audio, lighting control with a single, easy-to-use app interface for superior control. The design involved whole-house control of entertainment, security, comfort, and convenience, through Legrand solutions and select third-party components.

# Recognitions, Awards and Leadership Experience

* Technology Officer of the Graduate Student Association at NJIT for the academic year 2016-2017.
* Represented NJIT as a Graduate Student Delegate at the United Nations for the Youth Leadership and Peace Summit 2016.
* Selected for paper presentation at the International Conference on Computational Photography at Rice University, USA, 2015.
* Selected for industry track paper presentation at ICACCI, 2015, Awarded ‘Best Project – Research Track’ at MIT Pune, 2015.
* Participated in Texas Instruments Innovation Challenge India Design Contest 2015 and reached the quarter final stage.
* Chairperson of the National Level Technical Festival ‘Texephyr’, 2015, Vice-President of Cultural Festival ‘M.E.R.C.’, 2015.
* Head of the Association of Electronics Students at MIT Pune, 1st Runner’s Up at the MIT Pune’s ‘Best Manager’ Event.