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*

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.