

# Prateek Rastogi

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## Education

Currently Pursuing B.Tech In Computer Science And Engineering From IIT Guwahati (2010-2014).

## Areas of Interest

Algorithms, Probability, Optimization, and Statistics.

## Skills

### Programming Languages: -

▣ MATLAB, C, C++, C#, Java, Python, PHP, XHTML, CSS, Shell Scripting, SQL, JavaScript.

### Operating Systems: -

▣ Fedora, Ubuntu, Linux Mint, Mac OS X, Windows.

### Content Management Systems: -

▣ Wordpress, Joomla.

### Software And Other Skills: -

▣ Microsoft .Net Framework, Microsoft Office, Microsoft Visual Studio, MATLAB, UML.

▣ Adobe Flash Professional, Adobe Dreamweaver, Adobe Acrobat X, CodeBlocks, Dev C++, Eclipse, Latex.

## Relevant Coursework\*

### Theory:-

▣ Algorithms, Compilers, Data Structures, Probability Theory and Random Process, Optimization, Databases, Operating System, Software Engineering, Digital Design, Computer Organization and Architecture, Data Communication, and Computer Networks.

### Lab:-

▣ Compilers Lab, Computing Lab, Data Structures, Database, Software Engineering, Operating System Lab, System Software, System Programming, and Networks Lab.

\* Some courses are scheduled to be completed by April 2013.



## Projects

### 🚧 Vehicle Navigation System

Written a multithreaded MATLAB application which analyzes car's dashboard camera video stream and tells whether car was turning left or right, or it was travelling in a straight direction. Source code of project is available on request.

### 🚧 PC Down

Written a Multithreaded WPF desktop application targeting .NET 4.0 Client Profile in C#. The multiple options in the application enables users to select the particular conditions which can trigger the computer shut down, hibernation, sleep, log off or restart. User can also select multiple conditions simultaneously for those multiple options. The condition which is triggered first will perform the power options selected for that particular condition by the user. The installer is available for download at:-

<http://sourceforge.net/projects/pcdown/>

### 🚧 Developed A Web Application For Providing Simulation Analysis Of Digital Electronic Circuits. Implemented Time Slot, File Upload and User Authentication Mechanism Using JavaScript, PHP and MySql.

**Duration: - Third Semester**

**Guide: - Dr. Santos Biswas**

### 🚧 Applied Text Files Indexing and Searching Mechanism Having GUI Using Python.

**Duration: - Fourth Semester**

**Guide: - Dr. Santos Biswas**

### 🚧 Two Pass Assembler Using C.

**Duration: - Fourth Semester**

**Guide: - Dr. Santos Biswas**

### 🚧 College Automation System Using Java Involving Timetable Management, Course Allocation, Faculty And Staff Leave Management, Grade Viewer etc.

**Duration: - Fourth Semester**

**Guide: - P.K. Das**

## Achievements and Activities

- 🚧 Secured 1824 Rank Among Around 472,000 Candidates In Joint Entrance Exam 2010 Conducted By IIT's.
- 🚧 Notched 99.5 Percentile In All India Engineering Entrance Exam 2010 Conducted By CBSE.
- 🚧 Joined NSS (National Service Scheme) To Work For The Welfare Of Underprivileged And Environment.