**Pujun Bhatnagar** 336193 Georgia Tech Station || Atlanta, GA 30332-1665|| (678) 702-4576 || pbhatnagar3@gatech.edu || Non-US-Citizen (F-1 Visa)

Education	Georgia Institute of Technology, Atlanta, GA, USA Bachelor of Science in Computer Engineering with minor in Computer Science	May 2015 Aug'11 - Present
	Major Specific GPA: 4.0/4.0 Overall GPA: 3.92/4.0 Summa Cum Laude (Expected)	riug II Tresent
Study Abroad	Worcester College, Oxford University, UK Georgia Tech Lorraine, Metz, France	May'13 - Aug'13 Jan'13 – May'13
	<ul> <li>Lead Undergraduate Teaching Assistant at Georgia Tech- Math Dept.</li> <li>Taught advance Calculus and Linear Algebra to 37 students in Fall 2013 and basic Calculus in 2 and 3 dimensions to 33 students in Fall 2012 in recitations twice a week</li> <li>Conducted, supervised and graded weekly quizzes, 3 mid-terms and 1final for 200 students MATHLAB Assistant at Centre for Academic Success at Georgia Tech</li> <li>Organized help sessions for Math &amp; Physics. Performed 1-to-1 and group sessions for 7 students per week Technical Intern at Larsen and Toubro and New Delhi Power Limited, India</li> <li>Worked with senior engineers to simulate and analyze power grid system of North Delhi.</li> <li>Used data mining techniques in MATLAB, C++, to determine potential flaws in power stations and increase efficiency of the network by 40%</li> </ul>	Aug'13 –Present Aug'12 –Dec'12 Aug'12 –Dec'12 May'12 –Aug'12
	<ul> <li>Lead Undergraduate Research Assistant under Dr. James McClellan, ECE Dept. for 3 semesters</li> <li>Developing mobile application to be used by Tech students to access &amp; finish homework on tablets</li> <li>Includes personalized flashcard app for students to review concepts &amp; enhance student-instructor interaction Concepts Creation &amp; Refinement Team at Georgia Tech</li> <li>Designed and implemented 4 algorithms using N-gram analysis; currently in use at Georgia Tech.</li> <li>Improved the student online question search system efficiency by 53%</li> <li>Complete redesign and auto arrangement of concepts within the ITS system using 3 level integration</li> <li>Proposed Instructor Assignment Creation system and improved efficiency by 29%</li> <li>Energy Security Team at Bharat Heavy Electricals Ltd, India</li> <li>Worked with senior engineers to evaluate the feasibility of large scale usage of hydraulic energy for electricity</li> <li>Reported 5 changes to Bhakra Dam authorities to improve energy security by 21%</li> <li>Measurement of Scales &amp; Electro-Magnetics, National Physical Laboratory, India</li> <li>Worked with 2 scientists to evaluate the accuracy of measuring scales</li> <li>Analyzed RF and FM waves to improve wireless communication as a part of CSIR youth leadership in Science</li> </ul>	Jan'12- Present Aug'13 –Present Aug'12 –Dec'12 Jan'12 – May'12 2010-2011 Jun'08-Nov'08
	Oscilloscope Train Simulation and Simple Computer  "Trains sharing same tracks" state machine and a Simple Computer implementation using Quartus ALTERA Robot Self-Test (1024 lines of Assembly code)  Algorithms for auto-testing robot's hardware to help instructor and TAs repair and maintenance hardware "Minesweeper Game solver", N-cache simulator in C and Assembly (107 lines of Assembly code) "Ninja Fight and Puzzle" game & "Paint Application with Animation" using Java "Pattern Recognition" on ARM Processor using C++  Gameboy and Computer Game Design with Artificial Intelligence  3- D games in C using mode-III and mode- IV algorithms for meeting memory and hardware constraints Physical Modeling & Simulation  3-D N-Celestial System, Spring Projection Modeling using VPython to study physical & celestial phenomenon	Jan'13 – May'13  Jan'13 – May'13  Aug'13- Sept'13  Nov'12-Dec'12  Oct'12  Jan'12-Dec'13  Jan'12 – May'12
Skills	Programming Skills: C, C++, Java, MATLAB, MIPS Architecture and Python. Novice in Visual Basic Web & Database Management: HTML, PHP, CSS, LAMP (Linux Apache MySQL PHP), Wordpress CMS Operating Systems & Software: Shell, Bash, CMD Scripting, Linux, Macintosh, ARM and Quartus Languages: English (Fluent), Hindi (Native) and Sanskrit (Advanced Level)	
Extra Curricular Activities	<ul> <li>Vice President – Technology, Enterprise to Empower (Student organization at Georgia Tech)</li> <li>'Director of Quiz' – Senior school cabinet</li> <li>Conducted state level Science quiz with 30 participating schools and organized weekly meeting of teachers Helped visually impaired professor, Dr. Anil Khurana, Delhi University, with his Research Thesis</li> <li>Collected, analyzed data using Excel and SPSS and edited parts of his thesis</li> <li>Part time Science, Mathematics and Social Sciences teacher for visually impaired students</li> <li>Recorded NCERT books on CDs in English and Hindi and volunteer for excursions</li> </ul>	Aug'12 –Aug'13 Apr'10 – Apr'11
Areas of Interest	Concurrency within processors, data structure & algorithms analysis, optimizations, computer vision, artificial intelligence, computer instruction set architecture, embedded systems & control automation, digital gate and logic design, object-oriented software development, machine learning with big data handling	
Honors	Gold modelist at International Informatics, International Mathematics & Zonal Informatics Olympiad	

Gold medalist at International Informatics, International Mathematics & Zonal Informatics Olympiad Faculty honors, Dean's List at Georgia Tech and seven year scholar, silver, gold, diamond medalist

Active member of IEEE & Eta Kappa Nu ECE honors society at Georgia Tech

**Honors**