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| **Education** |

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| **Degree / Certificate** | **Institution** | **CPI / Percentage** |
| B.Tech | Indian Institute of Technology, Kanpur,India | 9.3/ 10.0\* (3.72 / 4.00) |
| Class 12 : CBSE Board | Apeejay School, Sheikh Sarai, New Delhi,India | 92.2% |
| Class 10 : ICSE Board | Christu Jyoti Convent School, Baghpat, UP,India | 93.3% |

\*after completion of 4 semesters.

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| **Awards And Scholarships** |

* Awarded **Academic Excellence** for academic year 2010-11, awarded to top few students in the department
* Awarded **Kishore Vaigyanik Protsahan Yojana (KVPY)** scholarship for the year 2009-10. Awarded to **top 90 students** across India
* Awarded **CBSE Merit Scholarship** under AIEEE 2010. Awarded to 332 students **among 11Lac** students
* Awarded Certificate of excellence in **IGSC Scholarship Examination** held in December 2002 at National level
* Awarded **Merit-cum-Means Scholarship** for meritorious performance for academic years 2010-‘11 and 2011-’12
* Awarded **Best Project Award** for making a dragon-model in TA201 course among more than 60 other projects
* Awarded **Second Best Project Award** for making paddle-boat in TA201 course among more than 60 other projects
* Designed and implemented a **Rover Bot** in Techkriti'12. An article for the same was published in a reputed newspaper describing about the robot's technologies.

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| **Academic Achievements** |

* Achieved an **All India Rank 229 (AIR)** in **IIT-JEE’10** in which more than 500,000 students appeared. **Percentile- 99.95%**
* Secured **AIR** **262 Rank** inAIEEE’10 in which nearly 1,100,000 students appeared. **Percentile- 99.98%**
* Secured **AIR 6** in UPTU Examination 2010. **Percentile- 99.997%**
* Awarded Certificate of merit for being placed in top 1% in **National Physics Olympiad** 2010 held by Indian Association of Physics Teachers and qualified for next level exam.
* Awarded Certificate of merit for being placed in top 1% in **National Chemistry Olympiad** 2010 Indian Association of Chemistry Teachers and qualified for next level exam.

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| **Projects** | |
| **Parallel Computing for Autonomous Vehicle Simulation**(Carnegie Mellon University, Summers 2012)  *Technology used:* coding in CUDA, GeForce GT530 Nvidia Graphic Card   * Understanding of GPU architecture, its various uses and limitations for general purpose coding * Learning of CUDA for GPU coding and understanding AutoSim Structure and different models * Optimized AutoSim models and other features and implementing them on GPU * Results were shown as time compared between GPU and CPU runtime | |

**Digital Clock** (Computer Organisation Course, IIT Kanpur, Nov 2011)

*Technology used:* coding in BSV (BlueSpec Verilog), FPGA(Field Programmable Gate Array) architecture

* Designed a digital clock in BSV and implemented on FPGA architecture
* User could set time, set alarm and use clock as stop watch

**Cricbot** (Robotics Club, IIT Kanpur, Dec 2011)

*Technology used:*  coding using OpenCV, Image Processing

* Autonomous bot that works on the principle of Image Processing
* The bot had to collect the balls which was rolled down from the ramp and then deposit them into the collection pit in minimum possible time and play a one on one cricket match against the opponent bot

**Paddle Boat** (Introduction to manufacturing process, IIT Kanpur, Jan-April 2012)

*Technology used:* Milling, Drilling, Lathe

* Made a mechanical model of Da-Vinci Paddle Boat which supports conventional paddling by legs
* Multiple workers can provide their efforts on a central rod which prevents the problem of synchronizing efforts in usual paddling

**Dragon Model** (Introduction to manufacturing process, IIT Kanpur, Jan-April 2012)

*Technology used:* Sheet metal, Welding, Casting

* Made a Flying dragon model using Welding, Casting and Sheet Metal work which was attached to base at only single point

**Rover Bot** (Robotic Club, IIT Kanpur, Summers 2011)

* Developed a system design for a difficult regional exploration rover for demonstration of locomotion capabilities, payload accommodation, and control. This is somewhat similar to lunar rover
* Efficient locomotion system capable of moving on rough terrains, steps, cylindrical objects, and slope up to 50 degree

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| **Relevant Courses** |

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| * Operating Systems\* * Principles of Programming Language\* * Compiler Design\* * Programming Tools & Techniques * Introduction to Computer Organization * Discrete Mathematics * Fundamentals of Computing(C language) * Linear Algebra\* * Probability and Statistics * Fourier Analysis & Differential Equations * Economic Analysis of Laws\* | * Computer Networks\* * Theory of Computation\* * Artificial Intelligence Programming\* * Algorithms\* * Introduction to Mathematical Logic\* * Data Structures & Algorithms * Introduction to Electronics * Multivariable Calculus * Complex Analysis & Linear Algebra * Introduction to Economics |

(\* courses to be completed by Apr’13)

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| **Technical Skills** | |
| **Programming Languages** | C, C++, CUDA, Latex, HTML, CSS, Shell Script, GNU Plot, Java, Python, Assembly Language ,Bluespec Verilog |
| **Platforms** | Windows- XP/Vista/7, Unix |

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| **Positions of Responsibility** |

* **Academic Mentor, Counseling Service** IIT Kanpur for academic year 2011-12
  + Taught ESC101(C language) and PHY103(Electrodynamics) to students facing academic problems
* **Student Guide, Counseling Service**, IIT Kanpur for academic year 2011-12
  + Mentored 6 freshmen students and assisted them in getting familiar to the college environment
  + Responsible for their overall adjustment and performance in first year
  + Assisted in the successful organization of the orientation programme for the benefit of around 815 students in IIT Kanpur
* **Secretary, Robotics Club**, IIT Kanpur for academic year 2011-12
  + **Guided students** in robotics events in Techkriti, annual inter-collegiate technical festival of IITK and Takneek, the Intra-college Technical Festival of IITK
  + Responsible for scheduling and smooth conduction of robotics **lectures and workshops**
  + Organized competitions under Takneek and Techkriti, and projects for students over the summers
* **Computer Centre Secretary**, Hall 2 for academic year 2011-12
  + Responsible for installation of new softwares and proper working of the hardware
* **Takneek Pool Co-ordinator,** Takneek’11 and Takneek’12
  + Organized scientific and technological events from *Rajput pool,* consisting of 3 hostels and ensured healthy participation
  + Overall effort lead to **second position** in Takneek’11 among other pools

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| **Extra Curricular Activities/Interests** |

* **Robotics**
  + Made an autonomous line following robot in Takneek’10
  + Participated in Kshitij’11 (IIT Kharagpur technical fest).
  + Made a All Terrain Vehicle in Summer Camp’11 organized by Robotics club IIT Kanpur
  + Participated in Wild Soccer in Takneek’11 and in Techfest’12 (IIT Bombay Technical Fest)
* **Social Services**
  + Awarded **Certificate of Special Effort** in Mass Awareness Campaign against AIDS and Cancer organized by Caring Souls Foundation to alleviate the sufferings of the Needy Cancer Patients
* **Business Club**
  + Awarded **first prize** in business simulation organized by IIM Bangalore at IIT Kanpur