



Gaurav Lulu
Electrical Engineering
Indian Institute of Technology, Bombay

09007031
UG Second Year
Male
DOB: 11/06/1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	9.39
Intermediate/+2	CBSE	Delhi Public School, Risali	2009	97.00
Matriculation	CBSE	Holy Cross Senior Secondary School, Kapa, Raipur	2007	94.80

SCHOLASTIC ACHIEVEMENTS

- Topped the Kharagpur zone , securing **All India Rank(A.I.R.) 87** in IIT-JEE out of 3.85 lakhs appeared [2009]
- Secured **A.I.R. 312** in AIEEE(out of 9.6 lakhs students appeared) with **State Rank 1** [2009]
- Amongst **top 1%** students nationwide selected for **Indian National Physics Olympiad** and **Indian National Chemistry Olympiad** conducted by HBCSE [2008]
- Selected for interview of prestigious **KVPY**(Kishore Vaigyanik Protsahan Yojana) among top 600 students in India conducted by Govt. of India [2007]
- Secured **A.I.R. 42** in 10th National Science Olympiad conducted by International organization SOF
- Certificate of **High Distinction** in **Australian Chemistry Quiz** conducted by Royal Australian Chemical Institute
- Was awarded **Gold Medal** in **International Informatics Olympiad** organized by Computer Literacy Foundation
- Recipient of prestigious **Amul Vidya Bhushan Award** [2009]
- Recipient of **Shweta Kothari Gold Medal** for outstanding performance in AISSCE(CBSE XII board) [2009]
- Secured **AP grades** in two institute level courses(Computer Programming and Chemistry) at IIT, Bombay
- **Certificate of Merit** for scoring **100% marks** in Mathematics and Computer Science in AISSCE [2009]
- Represented school at International Science Creativity Olympiad at Jamshedpur conducted by Indian Institute of Engineers [2008]
- Secured **1st rank** in state in AISSCE by CBSE [2009]
- Secured **A.I.R. 24** in **VITEEE** among lakhs of student that appeared [2009]
- Secured **2nd rank** in Chhattisgarh State P.E.T. [2009]

PROJECTS UNDERTAKEN

- Mini UID (Unique Identity) Project** under 'Prof. D.B. Phatak' [Sep'09-Nov'09]
- Institute scale project based on the current national level UID project undertaken by Govt. of India
 - Aimed at uniquely identifying any IIT student by analyzing the corresponding fingerprint image
 - Fingerprint image was scanned and converted to .xml format containing each pixel information
 - Analysed the image extracting vital differentiating points and adding this information to corresponding student database and using it to uniquely identify the student
 - Language used:C/C++
- Advanced Line Following Bot** [Jan'10]
- Designed and built an autonomous bot that can follow a white painted path on a black background
 - Bot used PID control for optimizing the basic line following technique, IR LED-phototransistor, arduino microcontroller, differential drive mechanism,IC LM324,IC L293D, dc motors, battery
- Classic Snake game** [2008]
- Designed using language C/C++
 - Used the approach of Object Oriented Programming with proper GUI to enhance the gameplay.
- RF controlled car** [Aug'09]
- Built a very simple 4 wheel battery powered car based on differential drive mechanism
 - Bot was controlled using a wireless joystick

POSITION OF RESPONSIBILITY

Computer Secretary, Hostel 5

[Aug'10-to date]

- Responsible for providing and maintaining network facilities to around 500 students

Coordinator, 'Technoholix', Techfest, 2011

[July'10-to date]

- Conceptualizing the shows and other attractions that will be presented at Technoholix in techfest, asia's largest college technical festival
- Supervised the installation and running of the "Discovery Dome"-a 225sqft mobile planetarium at Scintillations

Organizer, 'Robowars', Techfest 2010

[Oct '09-Jan'10]

- Managed a crowd of around 400 and ensured the smooth execution of event

House Vice Captain, HCSS School

[2005-06]

- Organised various student cultural activities and inter house competitions

EXTRACURRICULAR ACTIVITIES

- Awarded **B certificate** for NCC(National Cadet Corps) training
- Participated in campaign against polyethene bags and other social activities conducted by NCC,NGOs
- Donated food and clothing to poor children in a locality by coordinating with other NCC cadets
- Participated in various literary contests at Freshizza,'09 and bagged **2nd position** in rebus event.
- Part of school team in **Inter-school volleyball** tournament
- Won the senior Inter-house **Computer Programming Contest** at school level
- Designed the flag for my hostel using adobe photoshop
- Participated in inter-hostel sophie hockey and other intra hostel sports events
- Actively took part in various hostel cultural events like PAF, matkiphod, gyrations(inter-hostel dance competition)

SOFTWARE SKILLS

- **Languages:** C/C++, HTML, javascript, PHP,MYSQL
- **Softwares:** MATLAB, Scilab, LT Spice, MS Office, Adobe photoshop
- **Operating Systems:** Microsoft Windows, Ubuntu

COURSES UNDERTAKEN

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|--|---|
| <ul style="list-style-type: none">• Introduction to Electrical Systems• Introduction to Electronics• Network Theory• Electronics Devices and Circuits• Calculus• Ordinary Differential Equation I &II | <ul style="list-style-type: none">• Complex Analysis• Linear Algebra• Computer Programming and Utilization• Discrete Structures• Data Analysis and Interpretation• Engineering Drawing |
| <p>As of Spring 2011:</p> <ul style="list-style-type: none">• Signal and Systems• Digital Systems• Machines Lab | <ul style="list-style-type: none">• Digital and Analogue Labs• Data Structures and Algorithms• Electrical Machines and Power Electronics |

INTERESTS

- | | |
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| <ul style="list-style-type: none">• Coding• Robotics• Computer Networks | <ul style="list-style-type: none">• Gaming• Digital Electronics |
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