



Kunal Garg
Aerospace Engineering
Indian Institute of Technology Bombay

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UG Second Year
Male
DOB: 14-05-1994

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	9.15
Intermediate/+2	CBSE	St. John's S.Sec. School , Kota	2012	94.00
Matriculation	CBSE	Kendriya Vidyalaya Nasirabad	2010	9.60

Scholastic Achievements

- Department Rank **1st** among 60 students.
- Pursuing a **Minor Degree** in CSE Department. (Jul'13-ongoing)
- Secured AIR-910 in JEE'12 among 5, 00,000, AIR-120 in ISAT'12 among 80,000, AIR-1,024 in AIEEE'12 among 13, 00,000 examinees.
- Secured first position in the city and 27th in the state in National Science Olympiad.
- Winner of Big debate, **Space Science Program** organized by ORACLE.

Technical Projects

Summer Project (May'13-Jul'13)

- Made an automated 'Guitar Playing Bot', which was completed up-to mechanical assembly development and testing of strumming.
- Analysed electrical part and mechanical designing of a prototype having 12 DC-motors along with 6 servos, controlled by two arduinos synchronised with each other.

Marker thrower

- Built a fully remote-controlled marker thrower in 1 day in team of 4, securing 1st position.
- Developed basic design and implemented the mechanical part.

Technical Competitions

- First year competitions: RC car, Line follower (based on arduino), RC plane.
- Junk yard wars: Using hydraulics, made a bot for destruction of block-buildings in a night's time in a team 4, securing 5th position out of 10.
- IRC-Techfest: Managed mechanical part of two bots, one manually controlled for throwing balls and picking up blocks, one autonomous (arduino based) solving grid and picking up blocks.

Course Projects

Foldable-seats in buses (Sep'13-Nov'13)

- A designing project proposing viable solution to address the issue of overcrowding in TumTums during peak hours in team of eight.
- Interviewed HCU Head, students and other users for their requirement capturing.

- Managed the mechanical designing of the prototype having hydraulic mechanism for folding seats using rack and pinion, a fully automated design to be controlled by switches.

Market-cum-game centre

- Developed virtual market and dice game using C++ in team of 2.

Play-zone

- Developed multi-game play zone having three games using 'SCRATCH' in team of 2.
- Project got selected in top 5 games out of 220.

Position of Responsibilities

Technical secretary, Hostel-6

(Aug'13-ongoing)

- Renovated hostel's tech-room, procuring all the necessary tools and equipment.
- Ensured maximum participation from Hostel in Inter hostel GC by conducting intra-hostel competitions.
- Participated in junk yard wars, made the bot using scrap in a night's time.

Coordinator, Events, Techfest

(Apr'13-Jan'14)

- Led a team of 5 organizers to organize the event 'Prakriti', the competition deals with solutions of problems like pollution and waste management.
- Managed the event from bringing a huge participation of 300 teams, to their abstract readings, to their mentor allocation and to the final execution of the event.
- Managed the smooth event execution with 4 organisers under me, helping judges in the final result preparations.

Mentor

(Jul'13-ongoing)

- Mentored 4 teams for circuitry and in CAD modelling in XLR8 (RC car).
- Helped a team in mechanical designing of their ball-picking bot for Techfest.

Coordinator, Competitions, Mood Indigo

(Jul'13-Dec'13)

- Managed the music band events with 4 organisers under me.
- Organised the event from preparing judging criteria, to setting up the venue, to lining up the teams, to concluding the event with result preparation in time.

Software Skills

- SQL, C++, Java, ATmega microcontroller (arduino) coding.
- Solid Works, Autocad, MATLAB.

Sports

- Participated in National Scout-guide trekking in Pachmani, M.P. in 10th class.
- Represented school at the state level in Basketball in 9th class.