



**Mashal Kumar**  
**Civil Engineering**  
**Indian Institute of Technology, Bombay**  
**Specialization: None**

**110040071**  
**UG Second Year**  
**Male**  
**DOB: 11-01-1993**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	6.27
Intermediate/+2	DAV Public School	DAV Public School, BSEB Patna	2010	87.00
Matriculation	DAV Public School	DAV Public School, BSEB Patna	2008	94.20

## KEY TECHNICAL PROJECT

### Institute Technical Summer project, 2012

(May'12-Jun'12)

IIT BOMBAY, Mumbai

- **Project Leader** in developing an advanced security system based on Gesture and timing
- Programmed Arduino to store individual password and to use it in future for password matching of that individual
- Planning to implement it into banks for recognising users

### Devil Dozer, Techfest 2012

IIT BOMBAY, Mumbai

- Made a manually controlled robot to collect and drain the balls from one pit to another

## POSITIONS OF RESPONSIBILITY

### Technical Secretary, Hostel 13

(Aug'12-present)

- Conducted workshop session on LTspice (circuit simulation) for the hostel inmates
- Organised and conducted various workshops on Robotics and Embedded system in the hostel
- Prepared hostel to participate in **Inter Hostel General Championship events** based on robotics, electronics as a **leader**

### Coordinator, Robotics Club

(Apr'12-Present)

### Student Technical Activity Body (STAB), IIT Bombay

- Made the Problem statement and arena of biggest freshie technical event
- Successfully conducted the XLR8(trachmania) in which 171 teams of 4-5 people participated which includes Undergraduates & Postgraduate teams

### Coordinator, Techfest 2012-13 (Asia's Largest Technical Festival)

(Jan'12-Present)

- Assisted manger to design & construct two domes for exhibition
- Negotiating and contacting with developers and researchers from all over the world
- database management

### Coordinator, Mood Indigo 2012-13 (Asia's Largest Cultural Festival)

(Mar'12-Present)

- Worked as a Coordinator in Mood Indigo under Hospitality and Public Relations department
- Mood Indigo is the largest college cultural festival in India with a budget exceeding INR 15 million and a participation of over 80,000 students from over 700 colleges from across the country
- leading a team of over 25 organisers

### Technical Mentor

(Jul'12-Present)

- Mentoring B.Tech 1<sup>st</sup> year students in all their technical event
- My mentees were placed 10<sup>th</sup> out of 170 teams in XLR8 competition

## KEY ACADEMICS PROJECT

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### Computer Programming and Utilization Project

*Guided By: Prof. D. B. Phatak*

*(Oct'11)*

- Developed an entertainment game **KBC(Kaun Banega Crorepati)** by using C++ language in EZ windows to provide Graphical User Interface(GUI)

### EE101: Course Project

*Guided By: Siddhartha Duttagupta*

*(Aug'12)*

- developed an electronic device **7 Segment Display** for displaying decimal numeral
- It is an alternative to dot matrix display

## SKILLS

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### Computer

- Designing Software: Solid Works, Eagle, LTspice
- Programming Language: C/C++, Matlab, Scilab

### Mechanical

- Metalworking/Machining, Lathe, Woodworking, Welding

## RELATED COURSES UNDERTAKEN

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- Pursuing **Honour** in Civil Engineering and **Minor** in Environmental Studies(Water and waste water management) apart from regular B.tech courses

### Civil Engineering:

- Engineering Mechanics
- Solid Mechanics
- Fluid Mechanics
- Data Analysis and Interpretation

### Electronics and Computer Science courses:

- Computer Programming and Utilization
- Introduction to Electrical and Electronics Circuits

### Mechanical Engineering:

- Design Engineering of Machine Elements

## EXTRA- CURRICULAR ACTIVITIES

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- successfully completed **National Cadet Corps** "B" certificate training
- Awarded **best design** in the Formula-One Racing Car Making Competition in my 1<sup>st</sup> year out of 121 participating teams.
- Got **special mention award** for the technical activity in my 1<sup>st</sup> year
- **Guinness & Limca World Record** holder in "most number of people solving Rubik's Cube"
- Performed well in inter Hostel General Championship due to which got selected in IITB Robocon Team
- Participated in hindi debate, dramatics and creative writing in Annual Freshie cult event
- **edited** an award winning short film in annual film festival of the institute
- Represented my hostel in Inter Hostel Competition for chess and badminton