Mohit Kumar Jain 110020080
Chemical Engineering UG Second Year
Indian Institute of Technology, Bombay Male
Specialization: NONE DOB: 12.07.1993

Examination	University	Institute	Year	CPI / %
Intermediate/+2	BIE,Andhra Pradesh	Sri Chaitanya	2010	96.90
Matriculation	SSC,Andhra Pradesh	St.John's	2008	92.70

ACADEMIC ACHIEVEMENTS

- Pursuing a **minor** in **Renewable Energy Technologies**
- All India Rank **891** in **IITJEE** among 5 lac students [2011]
- All India Rank **1153** in **AIEEE** among 12 lac students [2011]
- Finalist of **14th National Children's Science Congress** under the focal theme Bio diversity: Nurture Nature for our Future held by A.P State Council of Science and Technology
- Scored an aggregate of **99.7%** (maths, physics and chemistry) in 12th Board Examinations
- Ranked **318** in **EAMCET** among 2 lac students [2011]
- Achieved a percentile of **97.4** in **11thNational Science Olympiad** [2008]
- Recipient of **IIT Bombay's Merit-cum-Means Scholarship** [July'11-Present]

POSITIONS OF RESPONSIBILITY

MENTOR, Student's Technical Activity Board, IIT Bombay [Jul'12-Present]
- Part of the 44 member team selected to mentor freshmen in technical activities
- Mentoring 60 students towards completion of their projects with wide scale application

CO-ORDINATOR, Electronics Club of IIT Bombay [May'12-Present]
- Conducted workshops, competitions, various talk sessions for freshmen of IIT Bombay
- Organised line following competition held at IIT Bombay in which 120 teams registered, covering about 3 sessions/workshops each of 6 hrs duration for this competition

COORDINATOR, MOOD INDIGO,(*Asia's Largest Cultural Festival*) [Mar'12-Present]
- Working with 10 member team,entrusted to raise sponsors for Food and Beverages section
- Leading a team of 14 organisers to maintain logistics for food court and refreshments for guests and artists

CO-ORDINATOR ,TECHFEST(*Asia's Largest Technical Festival*) [Mar'12-Present]
- Working to make frameworks for open competitions to be held at Techfest 2013
- Leading a team of 12 organisers in structuring and implementation of competitions

SKILLS

- Programming Languages : C++, Matlab, SCILAB, OpenCV(Library)
- Hardware Description Languages: Arduino(Electronics Prototyping language)
- GUI Tools : Microsoft office, Solidworks, Photoshop, After effects
- Operating system : Windows, Linux(Ubuntu distribution)

INDUSTRIAL EXPERIENCE

RASHTRIYA CHEMICAL AND FERTILISERS,MUMBAI [Jan'12]
Guide – Prof. Sanjay Mahajani
- Successfully completed a training program on "Production of Sulphuric Acid" at RCF Mumbai
- Studied and observed the process incorporated for the manufacture of sulphuric acid and the various techniques used to optimise the energy requirements of the plant

TECHNICAL ACTIVITIES

BALL TRACKING ROBOT [May'12-Jun'12]
Institute Technical Summer Project, IIT Bombay
- Implemented **image processing** in Open CV to detect and approach specific coloured balls
- Incorporated visual feed back from on board camera using enhancement and processing algorithms leading to better navigation
- Used **AVR microcontroller** and custom designed motor driver circuit for fine performance
- Designed the mechanical platform for testing various image processing algorithms
- Demonstrated at Institute's annual technical Exhibition

AUTONOMOUS LINE FOLLOWING ROBOT [Oct'11]
Freshie General Championship, IIT Bombay
- Build an **autonomous robot** which can follow a white line on a black background
- *Robot used the PID control mechanism for line following and differential drive mechanism*
- Secured **3rd Position** among 120 participating teams in the event

ROBOTIC MANIPULATOR
- Played a pivotal role in designing a manual machine that perform a basic pick and place task
- Implemented a unique 4 bar gripping mechanism and actuation system
- Awarded with the **Best Manual Robot** and **Most Innovative Design**
- Secured 1st position among the 44 participating teams

WALL FOLLOWING ROBOT, *Self – project* [Nov'11-Dec'11]
- Designed and fabricated an autonomous robot which follows wall and detects obstacle
- Designed the mechanical and electronic hardware along with controls of the robot
- Implemented IR sensors, distance sensors and motor drivers in the robot

REMOTE CONTROLLED RACING CAR [Aug'11-Sep'11]
- Designed a manually controlled wireless car that could traverse any given terrain

KEY COURSES UNDERTAKEN

CORE
- Chemical Engineering Thermodynamics
- Introduction to Transport Phenomenon
- Solid Mechanics
- Fundamental of Heat and Mass Transfer
- Process Fluid Mechanics
- Introduction to Numerical Analysis

MATHEMATICS
- Complex Analysis
- Linear Algebra
- Differential Equations

OTHERS
- Computer Programming and Utilisation
- Data Analysis and Interpretation
- Experimentation and Measurement lab

EXTRA CURRICULAR ACTIVITIES

District 1st in Elocution on Road safety , received certification of appreciation from District Collector
National Service Scheme (NSS) [2012]
- Volunteered for **ECF**(Environmental Conservation Forum) and Planted 4000 saplings with a team of 40 under **Green Campus** Initiative, IIT Bombay
- **Special Mention award** for altruistic efforts towards NSS

Social Service
- Certificate of Appreciation from **ITRRODDD** for raising fund for the welfare of **blind children**

Guinness World Record [Feb'12]
- Among the participants who made **a Guinness World record** of most people solving the Rubik's Cube at a time