



Mandhane Amol Balkishan
Chemical Engineering
Indian Institute of Technology, Bombay

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UG Second Year
Male
DOB: June 29, 1993

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	5.92
Intermediate/+2	MSBSHSE	Jagruti Junior College	2010	90.17
Matriculation	MSBSHSE	C.S. High School	2008	93.38

ACADEMIC ACHIEVEMENTS

COMPETITIVE EXAMINATIONS

- Secured All India Rank **790** (of 4,00,000) in IIT-JEE examination (2010)
- Secured All India Rank **412** (of 10,00,000) in AIEEE examination (2010)
- Secured All India Rank **32** in Unified Council NSTSE examination (2010)
- Secured All India Rank **64** in Nationwide Interactive Maths Olympiad (2010)

SCHOLARSHIPS

- State level Scholarships in MTSE-I, MTSE-II (2008-09)
- Unified Council NSTSE Scholarship (2009-10)

PROJECTS

HDPE SYSTEM SIMULATION

(Aug 2011-Nov 2011)

High Density PolyEthylene system simulation

- Selected for the project HDPE system simulation through **ASCEND** in collaboration with **Australian National University** and **University of Alabama** for testing and proper implementation of **ASCEND**, a chemical process modelling environment under Prof. Kannan Moudgalya

SULPHURIC ACID PLANT ANALYSIS

(Feb 2011-Apr 2011)

Guide : Prof. Sanjay Mahajani

- Conceptualised sulphuric acid plant schematics based on the study of the plant design at **Rashtriya Chemicals and Fertilizers Ltd.**
- Awarded **full credits** for the schematics under the course CL152

SEGWAY

(Mar 2011-present)

A two wheeled personalized robotic vehicle

- Currently manufacturing the vehicle in collaboration with a team of 10 people, under Technovation project conducted by Student's Technical Activities Body (STAB)
- Built a manually driven two wheel balancing small prototype bot successfully

BANKING MANAGEMENT APPLICATION

(Aug 2010-Nov 2010)

- Developed a database backed Banking Management Application with C++ back-end and QT-C++ front-end in collaboration with a team of 12 students under the course CS101
- Awarded **full credits** for successful completion of the project

TECHNICAL ACTIVITIES

CODING AND WEB DEVELOPEMENT

- Programming Languages** - C, C++, Python, Ruby, Ruby on Rails, Django, HTML, CSS, Javascript, XML, PHP, SQL, JSON along with various APIs, libraries and language sets
- Designed a Ruby on Rails model structure based library for CodeIgniter Framework. Currently being used by web developers all over the world
- Developed a **Web-based code editor**, for editing website code on the server behind proxy. Currently being used by many website including Techfest
- Currently programming a **Database Management Application Generator** based on Python

ROBOTICS

- Participated in various events of robotics in and outside of IITB
- Mentoring a group of 20 freshmen in their first technical event at IITB -TechOne
- Currently working with Techfest team and robotics club for designing and mentoring robotics competitions and workshops

WORK EXPERIENCE

INSTI BAY

(Mar 2011-present)

Co-founder and Technical Head

- Launched an **online commodity exchange** company, Insti Bay (**instibay.in**) in IITB. Currently working as Technical Head of Insti Bay
- Currently the company has over **3600 users** registered and using the provided facility.
- Planning to penetrate in non-traditional market area and large user sub-domains
- Collaborating with a renowned tech blog for intergration of tech and non-tech articles on Insti Bay as well as attracting the user community

FREELANCE WEB DEVELOPMENT

(Aug 2011-present)

- Worked as Web Developer in -
 - Entertainment Engineers
 - School Ahead
- Currently working for a Blood Donors Database Management organisation (a startup by fellow IITians. Name yet to be decided) as Backend Developer

POSITION OF RESPONSIBILITY

CO-ORDINATOR, WEB AND CREATIVES, TECHFEST

(Mar 2011-Jan 2011)

- Designed the **website of Techfest 2012** with the Web team of Techfest
- Introduced a new way of facebook publicity for the events of Techfest using **Facebook Connect**
- Co-ordinated Ummeed-e-milaap, an initiative for India-Pakistan peace and non-violence
- Co-ordinated all the online competitions and coding events of Techfest
- Co-ordinated **Amazing Race** – On the Spot event with a participation of 300 people

CO-ORDINATOR, WEB N' CODING CLUB

(Mar 2011-present)

- Co-ordinating with a **team of 4 people** to organize competitions and workshops of the club
- Introduced **freshmen oriented coding** workshops and competitions for the first time which received an **exceptionally good feedback** from the freshmen involved
- Special Recognition from STAB team for having a **record participation of freshmen** in the workshops and competitions

OVERALL CO-ORDINATOR, HTPL

(Aug 2011-Nov 2011)

- Conceptualized and successfully implemented the 'Hostel 3 Premier League' comprising of 10 teams, over 180 players with a total of 45 league matches
- Negotiated with renowned sports equipments and sports clothing dealers for the deal of **Rs. 1.2 lacs** of equipments and t-shirts for the tournament
- Led a team of **4 hostel sports secretaries** with **two OCs** to maintain a vibrant sports atmosphere in hostel

EXTRA CURRICULAR ACTIVITIES

GRAPHICS DESIGNING

- Designed posters and videos for various events and clubs at IITB including WnCC and Krittika
- **Graphics design softwares** - Photoshop, Illustrator, Fireworks and more

NCC ADVENTURE CAMP

- Was a part of annual NCC adventure camp held by **2 MAH ENGR REGT** at IITB
- Was awarded "B Certificate" for clearing the NCC examination and successful completion of the camp
- Acquainted with activities like parasailing, rifle shooting, trekking

OTHERS

- Had enthusiastic participation in the social activities at hostel and school level
- Have a zeal and enthusiasm in Fine Arts including drawing, painting, crafting etc.