

Nooruddin Kapadia Chemical Engineering Indian Institute of Technology Bombay Specialization: None

110020051

UG Third Year (B.Tech.)

Male

DOB: 04/05/1993

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2014	8.29
Intermediate/+2	CBSE	Kalidas Montessori	2011	90.60
Matriculation	CBSE	Kalidas Montessori	2009	83.60

KEY TECHNICAL PROJECTS

ChemECar [Jan'12-Mar'12]

National-level competition with an aim of designing a shoe sized car considering environmental and safety aspects that must derive its power and braking mechanism from an on board chemical reaction

- Designed an environmental friendly car which runs by exhausting compressed water because of the pressurised
 CO2 produced through the on-going chemical reaction of Vinegar and baking soda
- Engineered the two compartment based car to obtain the maximum pressure with limited usage of chemicals
- Simulated and optimised in Matlab to reduce the cost and size of the car
- Was the **only car from the institute** that completed the problem statement

Non-Contact Emissivity and Thermometry

[Nov'12-Jul'13]

- Built a device for determining temperature of a body without direct contact using thermal and IR sensors
- Analysed the available non-contact thermometer and **implemented the emissivity factor** into account for the grey body resulting in increased accuracy and reliability
- Presented the device at TECHFEST 2013 along with 80 eminent projects from all over the world
- Receiving market demands from companies to commercialise the product

BlindSight - Technovation, IIT Bombay

[Apr'13-Present]

Equipment that helps blind persons to navigate freely on the road by getting proper directions and alerts

- Built a device that can fit over shins, waist and hands of a person to alert him of any walls, depression or any obstacle either static or moving come along its pathway
- Developed an intelligent circuit comprising of Ultrasonic sensors and phasors using AVR programming
- Currently working on incorporating GPS navigation to provide proper directions
- Selected to showcase in Technical Orientation 2013 for freshmen as one of the 5 best projects

Design Exploration Workshop (DEW), Innovation Cell, IIT Bombay

[Dec'11]

DEW engages students across all disciplines in ideation, design and implementation of prototypes

- Built a Fire Escape Elevators for Sky Scrapers under the theme Personal Emergency Habitats
- Developed a space-efficient prototype used to save people during fire emergencies in tall buildings
- Received appreciation from faculties of various disciplines for its uniqueness

Wall Painting Robot [May'12-Jun'12]

Institute Technical Summer Project (ITSP-2012), Robotics Club, IIT Bombay

- Developed a robot which can autonomously paint an entire wall with reference to some origin
- Used rack and pinion mechanics and Arduino programming to automate the painting process
- Implemented a power-efficient mechanical method to perform the task more economically

PAPER CARDBOARD BOT

[Feb'12-Mar'12]

- Engineered a chariot using only cardboard and paper which can sustain at least 80kg weight
- One of only 3 teams which were able to complete the above task in the event Technoholi

PRACTICAL TRAINING

Neev Knowledge Management: Summer Internship

[May'13-Jun'13]

- Implemented Search Engine Optimisation based oriented online marketing for the company
- Studied concepts of finance and promoted the content to developing team of CFA and FRM
- Built a proper sitemap of the company website based on the human psychology; introduced the linked blog system which helped enhance the Google rank of the site

Rashtriya Chemical and Fertilizers, Mumbai

[Jan'12]

Guide – Prof. Sanjay Mahajani

- Successfully completed a training program on "Production of Sulphuric Acid" at RCF, Mumbai
- Developed an insight in applying theories of Chemical Engineering in a real plant

Lazy8games: Winter Internship

[Dec'12]

- Designed a professional company website and an Android Application for arithmetic calculations
- Conducted sessions on Web Designing and Robotics for freshmen and developed the content for the same

SCHOLASTIC ACHIEVEMENTS

- Recipient of Institute Merit-Cum-Means Scholarship given by the Government of India
- Pursuing minor in Energy Science and Engineering
- Distinction in Online Inbound Marketing Institute Examination
- A perfect 10 grade in: Numerical Analysis, Economics, Chemical Engineering lab1
- All India Rank 823 and district rank 1 in IITJEE 2011 among 4,85,000 candidates
- All India Rank 485 and district rank 1 in AIEEE 2011 among 12,00,000 candidates
- Ranked among the **top 1%** in the *Indian Association of Physics Teachers Olympiad* in class 12th

POSITION OF RESPONSIBILITIES

Manager - Competitions, AZeotropy

[Mar'13-Present]

Chemical Engineering Department festival of IIT Bombay

- In charge for developing and executing the competitions and overall management of the festival
- Took the initiative of having department people participation in international competition *ChemECar* and thus having full execution responsibilities including funds, team management and liaison with the professors

Mentor Avanti Fellows: A non-profit organisation whose aim is to mentor and guide capable but financially weak students for clearing Engineering Entrance Examinations [Jan'12 – Dec'12]

Core Team Member - Peer to Peer Stude club, IIT Bombay:

[Jul'12-Apr'13]

- Conceptualised and conducted workshops on "Seven Habits of Highly Effective People"
- Organised informal Student Teacher Connect sessions to have talks on any technical activities

COMPUTER SKILLS

- Programming: C++, R, Arduino, AVR programming
- Web language: HTML, CSS, PHP, Javascript, Jquery, SQL, RSS, XML
- Packages: LabView, Matlab, Scilab, Latex, EasyScope, Microsoft Visio Professional 2013
- Completed Diploma in Computer Application (DCA) and Desktop-publishing (DTP)

EXTRA CURRICULAR ACTIVITIES

- Awarded Special Mention for overwhelming contribution in hostel technical activities
- Organized group discussions independently in different hostels to cater the need of communication skills in students and represented hostel for debating in Institute freshmen competition *Freshiezza*
- Currently learning Japanese Language; Scripts known: Latin, Persian, Devanagari

SPORTS

- Swam continuously for 6 hours covering distance of 7 km at Swimathon 2012
- Completed B certificate National Cadet Corps (NCC) training in 2011-2012
- Successfully completed the table-tennis camp under a professional teacher in summers of 2012
- Yellow belt holder in Judo; Completed 6.02 km Institute running crossy