

SACHIN NAIR

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Permanent Address

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Present Address

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Date of Birth: 6th February 1993.

Citizenship: Indian.

Passport Number: Z 2874106 Issued at Thane valid up to 23/03/2024.

EDUCATIONAL BACKGROUND:

Examination	Year	Institution/University	% Obtained/ CGPA
Masters in Technology (Chemical Engineering)	May 2015-Present	Indian Institute of Technology, Kharagpur	9.58/10
Bachelors in Engineering (Chemical Engineering)	2011-2015	Datta Meghe College of Engineering, Mumbai University	81.27% (University Rank 1)
10+2	2009-2011	Smt. Sulochanadevi Singhania School, ISC	89.6%
10	2009	Lok Puram Public School, CBSE	96.0%

PROJECTS:

❖ **Graduate Research**

Department of Chemical Engineering, Indian Institute of Technology, Kharagpur.

Research Topic: Adhesion tuned Electrospraying on Bio-mimetic surfaces

Description: The phenomenon of electrospraying is studied on two hydrophobic bio-mimetic surfaces- The Lotus leaf and The Rose petal. The contact line dynamics is compared and the role of adhesion in determining the dynamics is delineated.

❖ **Undergraduate Research:**

Department of Chemical Engineering, Datta Meghe College of Engineering, Mumbai University

Research Topic: The Study of Reaction Kinetics of Heterogeneous Esterification Reaction

Description: To study the kinetics of heterogeneous esterification reaction to produce ethyl butyrate using two catalysts (Amberlyst-15 and Indion-190) and compare their conversion and feasibility. A theoretical model has been developed to deduce the same and compare them with the experimental results.

SCHOLARSHIPS AND AWARDS

- ❖ University Gold medallist in the 2011-2015 batch of B.E. Chemical Engineering, Mumbai University.
- ❖ Three-time winner of the prestigious Sir Ratan TATA scholarship for excellent academic performance in the academic years 2011-2012, 2012-2013 and 2014-2015, securing first rank in all three years.

INSTRUMENT AND SOFTWARE PROFICIENCY

- ❖ Instruments handled: Confocal Microscope, Optical and fluorescence Microscope, Spin coater, Dip coater, Goniometer, High speed camera.
- ❖ Programming Languages: Basics of Matlab, C++, Java.

CO-CURRICULAR ACTIVITIES

- ❖ Participated in the Rusraile event organized in the AZEOTROPY 2014 fest by IIT Bombay. My presentation on Rural development plans was short-listed in the final 15 out of a total 75 entries. Also participated in the Chem-e-Car competition organised by the same.
- ❖ Completed an e-course on Safety in chemical process industries conducted by AiChE (American Institute of Chemical Engineers, under the SaChE (Safety and chemical engineering education) Program.

EXTRA-CURRICULAR ACTIVITIES:

- ❖ Nominated as Contingent Leader, representing Datta Meghe College of engineering at MOOD INDIGO 2013, Asia's Largest Youth Cultural Fest.
- ❖ Was the College coordinator for organising and conducting an anti-smoking campaign under the ISMOKE (I Support the Movement tO Kill canCEr) organised by TECHFEST 2K14, IIT Bombay. Our college made the record for most number of participants and the drive was featured in the Limca book of records.
- ❖ Regional coordinator for organising a PLATLET DONATION DRIVE in college, under the social initiative taken up by MOOD INDIGO- 2013.
- ❖ Convener in SOChE (Student's Organisation of Chemical Engineers), the committee responsible for organising TECHNITUDE 2K14, the technical fest of Datta Meghe College of Engineering.

REFERENCES

Prof. Sunando DasGupta
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Declaration

I hereby declare that the above written particulars are true to the best of my knowledge and belief.