

ABHINAV BANDARI

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Address: 711 Main Street, Evanston, IL 60202

EDUCATION

NORTHWESTERN UNIVERSITY

Master of Science in Chemical Engineering, Minor in Engineering Management

GPA – 3.61/4

Discipline Electives: Introduction to Polymers, Bio-nanotechnology, Statistical Thermodynamics

Other Electives: Decision Tools for Managers, Engineering Management, Operational Excellence

BIRLA INSTITUTE OF SCIENCE AND TECHNOLOGY (BITS), PILANI

Bachelor of Science in Chemical Engineering

GPA – 8.6/10

Discipline Electives: Petroleum Refining and Petrochemicals, Process Plant Safety

Other Electives: Principles of Economics, Professional Ethics

Evanston, IL

September 2015 – Present

Hyderabad, India

August 2010- August 2014

EXPERIENCE

NOTESTEIN RESEARCH GROUP-NORTHWESTERN UNIVERSITY

Student Researcher

Evanston,IL

January 2015- Present

- Studying heterogeneous bi-functional catalysis of CO₂ cycloaddition to propylene epoxide
- Did a literature study to find the optimum conditions for the reaction
- Designed the pressure reactor setup for conducting the experiments

D RAVINDER RESEARCH GROUP-OSMANIA UNIVERSITY

Student Researcher

Hyderabad ,India

October 2014 – June 2015

- Synthesized Cobalt and Nickel Substituted Bismuth nano-ferrites using citrate-gel auto combustion technique
- Characterized the nano-ferrites using SEM, XRD and EDS

HINDUSTAN UNILEVER RESEARCH CENTRE(A SUBSIDIARY OF UNILEVER)

Project Trainee

Bangalore,India

Jan 2014-June 2014

- Performed surface tension measurements to characterize various commercial surfactants like NaLAS ,MES
- Studied the effect of counter ion concentration on the CMC of NaLAS ,MES

ACADEMIC PROJECTS

SRIKANT DINDA GROUP-BITS, PILANI-HYDERABAD, INDIA

January 2013 –May 2013

Presented a report on “The exploration methods for crude oil, methods to estimate crude oil, drilling techniques and types of well completions, primary and secondary oil recovery methods” to the Chemical Engineering department

PURNIMA D GROUP-BITS, PILANI-HYDERABAD, INDIA

August 2012 –December 2012

Presented a report on “The properties of polypropylene nanocomposites with the addition of different nano-fillers” to the Chemical Engineering department

LEADERSHIP

INTERNATIONAL OFFICE, NORTHWESTERN UNIVERSITY

Graduate sidekick

March 2016-Present

- Co-ordinated with incoming international students regarding admission queries
- Planning to organize the international student reception in september.

MCCORMICK GRADUATE LEADERSHIP COUNCIL, NORTHWESTERN UNIVERSITY

Graduate Leadership Advocacy Council representative

Sept 2015-Present

- As a representative of the engineering school at the council, worked with students from across the campus on issues concerning graduate students.

SUMMER INTERNSHIP PROGRAM OF BITS, PILANI

Co-Instructor

May 2013-July 2013

- Mentored 35 students pursuing internships at various companies

TECHNICAL SKILLS

- Lab skills: GC, SEM, TGA, UV, XRD
- Computational Software: ANSYS Fluent, Aspen, MATLAB
- Programming Languages: Basic Understanding of C, Java