



AKASH GHOSH

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OBJECTIVE

I strive to be the part of an organization where I can implement my chemical knowledge which I have acquired so far with responsibility, diligence, thereby aiding in the success of the organization. Also, I want to enhance my working capacity and professional skills to serve the organization pragmatically.

CORE COMPETENCIES

- Flexible and adaptable
- Facts analyzing and grasping capability
- Ability to incorporate the existing knowledge
- Avid and collaborative learner
- Taking personal responsibility for the quality and content of your work

CURRENT POSITION

Final year Masters' student with M.Tech dissertation topic as '*Effect of different component and filler on the Silicone based Thermal Interface Material for electronics and automotive application*' under the supervision of Dr. Titash Mondal & Dr. Mohanlal Digar in the Research & Development Laboratory, Pidilite Industries Limited, Mumbai, India.

Task Performed:

- Design Thinking Process from lab to market
- Selection and study of the fillers and resins
- Formulation of Addition cured and Moisture cured silicone system
- Optimization of formulation using Design of Experiments
- Perform various ASTM standard tests for evaluating properties
- Analysis the properties using ANOVA

RESEARCH INTEREST

- Polymer Nanocomposite
- Functional Polymer
- Flexible Electronics
- Smart Adhesives

EDUCATION

Master of Technology

July 2020 — Ongoing

Indian Institute of Technology, Kharagpur

Field(s) of Study - Rubber Technology

The curricula involved courses on the basics of polymer science and technology. The engineering aspect involved while dealing with polymeric and elastomeric materials are also taught. Exposure to a different state of the art characterization facilities was also given. Holistically, a comprehensive picture of polymer science and engineering was delivered through the course of the study for two semesters. The other two semesters was dedicated to carrying out a research internship in industries.

Cumulative Grade Point Average (CGPA) - 9.03 (Till Third Semester)

Master of Science

July 2018 — May 2020

Ramakrishna Mission Vidyamandira, Belur Math

Field(s) of Study - Applied Chemistry

Apart from the regular courses of Chemistry, it involves course like Materials Science, Polymer Science and Technology, which gives an insight knowledge of chemistry and its utility in this materialistic world. The course work of three semesters creates a perception of the material and its structure-properties relationship. The last semester was dedicated to carrying out a project internship for master thesis.

Cumulative Grade Point Average (CGPA) - 9.07

Bachelor of Science

July 2015 — May 2018

Ramakrishna Mission Vidyamandira, Belur Math

Field(s) of Study - Industrial Chemistry

The curriculum involves basic Chemistry courses like Physical, Inorganic, Organic and Analytical Chemistry. Along with some basic courses for the industrial prospect such as Petrochemical, Ceramic Technology, Material Science, Polymer Science were taught. This help develops skills and knowledge of various industrial technology.

Cumulative Grade Point Average (CGPA) - 8.26

PUBLICATION

Book Chapter – **Ghosh A**; Sharma S; Bhowmick A; Mondal T; “Functionalization of Graphene and Graphite” in the Book of Graphene-Rubber Nanocomposites: Fundamentals to Applications, Ed. Mondal T & Bhowmick A; Taylor and Francis Group

INTERNSHIP

Masters Project at CSIR - National Chemical Laboratory, Pune (January 2020 - May 2020)

"Durable and biodegradable coating material of cellulose" under Dr. Kadhiravan Shanmuganthan

- Extraction of cellulose from cotton
- Modification of cellulose
- Film Coating technique
- Mechanical and Biodegradability Testing Techniques

Summer Internship at Ramakrishna Mission Vidyamandira, Belur Math (May 2018 - July 2018)

"Synthesis and characterization of Upconverting Nanophosphor" under Dr. Uttam Kumar Ghorai

- Synthesis of nanomaterial: Sol-Gel and Hydrothermal Techniques
- Powder X-Ray Diffraction
- FTIR Spectroscopy
- UV-Vis Spectroscopy
- Photoluminance Properties

AWARDS & ACHIEVEMENTS

- **All India Ranking -111** (Engineering Science) in Graduate Aptitude Test in Engineering (**GATE**) Exam, 2020.
- **Best NCC Cadet** Award 2017, Ramakrishna Mission Vidyamandira, Belur Math