

RESUME



VIVEKA GANESH BILLA

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CAREER OBJECTIVE:

Ready to work with learning and challenging environment and utilizing my skills and finding ample opportunities for upgradation of my knowledge and growth of my career where I can prove myself to be the best of my abilities and contribute positively to my personal growth as well as growth of the organisation.

FORMAL EDUCATION & QUALIFICATION:

QUALIFICATION	SCHOOL / COLLEGE NAME	YEAR	MARKS / GRADE OBTAINED
B.E. Semester 1	MIT, Pune	2019-2020	9.32 e.g.p.a.
T.E.	MIT, Pune	2018-2019	9.50 e.g.p.a.
S.E.	MIT, Pune	2017-2018	8.96 e.g.p.a.
F.E.	MIT, Pune	2016-2017	8.72 e.g.p.a.
12TH (HSC)	Dr. MKH Umathe & Mokhare College, Nagpur	2016	74.15%
10TH (SSC)	School of Scholars, Nagpur	2014	90.80%

INTERNSHIPS:

Reliance Product Application and Research Centre (PARC), Vadodara Manufacturing Division, Vadodara, Gujrat.

Project: Effect of Controlled Rheology Process on the mechanical properties of Impact Copolymer Polypropylene

Duration: June 3, 2019 – July 3, 2019

TRAINING AND LEARNING:

Following are the industrial visits during the engineering curriculum:

- Prescient Americhem Company, Pirangut, Pune
Industrial Visit Duration: 1 day

Got familiar with various masterbatches designed to meet the specific demands and properties in applications such as textiles, synthetic fibres, carpeting, etc. Learnt about the preparation of masterbatches where key ingredients for masterbatch formulation were decided on the basis of desired properties in the end product. Got the knowledge about various spinning operations and Fibre technology.

- FORES Elastomech India Pvt. Ltd, Waluj, Aurangabad
Industrial Visit Duration: 1 day

Got the knowledge about Rubber processing and compounding. The whole process of making rubber products from the formulations to the final end product was understood. The testing methods and characterization of the rubber sheets before processing was learnt. Through this visit, got to know that rubbers can also bond with metal inserts.

- CSIR-NCL (Council of Scientific and Industrial Research – National Chemical Laboratory), Pashan, Pune
Visit Duration: 1 day

Got to know about the various polymer processing operations used in industries and how researches are done for the same in labs. Learnt about the testing and characterization techniques used for industrial and research work. The working of Gel Permeation Chromatography (GPC), Differential Scanning Calorimetry (DSC), Thermogravimetric Analysis (TGA), Fourier Transform Infrared Spectroscopy (FTIR), Rheometry, etc. were learnt.

- Attended the 10th International Plastic Exhibition, Conference and Convention – “PLASTINDIA” at Gandhi Nagar, Ahmedabad, India. (From 7th to 12th February 2018).

PROJECTS:

- B.E. Project: Recycling of Thermosets (Polyurethane Foam)
Mentor: Dr. Deepti Marathe, Maharashtra Institute of Technology, Pune
Team Size: 3
Duration: September 01, 2019

Polyurethane (PU) Foam is one of the most versatile material because of wide range of properties such as comfort, designs, low densities and thermal conductivities and particularly in weight reduction. These superior properties of PU find applications in industrial sectors such as carpets, automobiles, building insulations, furniture and bedding, footwears, coatings and adhesives, insulations for freezers and fridges, etc. With these wide range of applications of Polyurethane Foam materials, a large number of Polyurethane foam wastes need to be disposed.

Recycling of PU Foam waste can be done by Physical, Thermochemical and Chemical means. Out of which Chemical Recycling is widely used. This project emphasizes on the chemical recycling of PU Foams Wastes. Chemical Recycling recovers valuable monomers or precursors of the monomers as well as recycled products can be used as an alternative virgin raw material.

- Effect of Controlled Rheology Process on the mechanical properties of Impact Copolymer Polypropylene
Mentor: Mrs. Sukriti Singh, PARC
Team Size: 3
Duration: June 3, 2019 – July 3, 2019

The mechanical properties such as Tensile Strength, Flexural Strength and Impact Strength were studied after the controlled rheology process of Impact Copolymer Polypropylene. Due to the Controlled Rheology Process, the MFI increased due to increase in the number of small molecular weight chains. This resulted in decrease in the mechanical properties. To compensate this decrease in the mechanical properties, 10 % of LDPE was also blended and the mechanical properties were studied.

- Mini Project: Anticorrosive Coatings
Mentor: Prof.Dr.Malhari B. Kulkarni, Maharashtra Institute of Technology, Pune.
Team Size: 1
Duration: August 9, 2018 – April 9, 2019

The project was about the Anticorrosive coatings used to protect metal components from moisture, oxidation or exposure to variety of environmental or industrial chemicals. The project consisted of epoxy based Anticorrosive formulations for corrosion protection of carbon steel, polyaniline based anticorrosive formulations for corrosion protection of mild steel, epoxy and polyaniline based anti-corrosive formulations for corrosion protection of steel and new and emerging materials in the field of anticorrosive coatings.

ACHIEVEMENTS:

- Departmental topper in the Third Year Polymer Engineering (Savitribai Phule Pune University).
- Scored highest marks in the subjects of Polymer Chemistry I, Polymer Chemistry II and Polymer Materials combined in Third Year Polymer Engineering.
- Wrote articles on topics related to Plastics and Polymer Engineering. The articles have been published in the newspaper.
- Completed all thirteen levels of Abacus Mental Mathematics.

COCURRICULAR ACTIVITIES:

- Participated in the Poster Competition on “Recycling of Thermosets – Polyurethane Foam” in Plastivision India at Bombay Exhibition Centre (BEC), Mumbai, India.
- Wrote 3 articles on the topics related to Plastics –
 - i. The Big BAN Theory
 - ii. Fight pollution, not Plastics
 - iii. Green Chemistry leading to safer plastics

- Participated in Hackathon India, 2017
 - Active participation in the departmental event of “Affinity and Confluence”.
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SKILLS:

- Give first preference to the work assigned.
 - Enthusiastic towards new projects.
 - Ability to analyse the problem and find the solution to it.
 - Have good leadership skills.
 - Ardent to know about new inventions and ideas.
 - Knowledge of AutoCAD.
 - Basics of C and C++ Language.
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INTERESTS:

- Fascinated by Drawing and Painting.
 - Writing articles on current topics.
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PERSONAL DETAILS:

Father's Name : Ganesh Mallaya Billa
Mother's Name : Shubha Ganesh Billa
Date of Birth : 30th May 1998
Languages Known : English, Hindi and Marathi

Date :
Place : Nagpur

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