AKSHA NETANYA PATON

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EDUCATION

B.Tech with Honors

MADRAS INSTITUTE OF TECHNOLOGY *2021-2025*

Rubber and Plastics Technology

CGPA - 8.22

Higher Secondary Education

Holy Family Convent Matriculation Higher Sec. School

95% *May 2021*

SKILLS

- Effective Communication and Presentation
- Time Management
- Creative Thinking
- Logical Reasoning

SUMMARY

A Rubber and Plastics Technology (Polymer Science Technology) Engineer graduated from Madras Institute of Technology with Honors. Passionate about product development and new product design. Skilled in polymer characterization, CAD design, and processing new product design.

TECHNICAL SKILLS

- Product Design and Modeling (Rubber, Plastic, Composite & Metal)
  - CATIA, Solidworks, NX CAD,Auto CAD and CREO
- Finite Element Analysis (ANSYS - Basic level)
- Composite Product Development
  - Resin Selection, Layup Sequence, Knowledge on Windmill Components.
- Tyre Engineering, Destructive & Non- Destructive Tyre Testing.
- Polymer Characterization
- Plastic Processing & Testing

CERTIFICATION COURSES

- Innovation by Design - NPTEL (IITB)
- NX CAD & 3D printing - SIEMENS Centre of Excellence
- Design, Technology and Innovation
- Professional Employability Skills
- Japanese Language Proficiency - Basic Level (N5)

ACHIEVEMENTS

- Presented a Technical paper at Crescent college on " Harnessing silver nanoparticles in food packaging".
- Organised paper presentations at college for National Technical Symposium during 2024 and 2025.

INTERNSHIPS

CEAT Tyres , Chennai

06/2024 - 07/2024

Training in the Manufacture of pneumatic tyres.

National Institute of Rubber Training , Kottayam

07/2023- 08/2023

Training in rubber materials, testing, etc.

CIPET , Chennai

One week

Training in plastic materials , plastic processing , plastic product manufacture and testing.

LANGUAGES

- English
- Japanese
- French

HOBBIES

Piano | Painting | Terrace Gardening

PROJECTS

1. Design and Development of Sustainable CFRP based Pallets using APQP methodology

Industrial Project - GURIT Wind Pvt.Ltd *3 Months*

A successful attempt was taken to reduce the scrap disposal at Gurit and to convert it into usable pallets.

- Pallet size - 1150 X 1150 X 85 mm
- Load Capacity - 700 to 1000 Kgs
- Modelling Software - Solidworks
- Finite Elemental Analysis - Ansys
- Cost Reduction - 4 : 1

2. Study on the effect of Pore Morphology on the Mechanical Performance of Rigid Cellular Core Materials

Industrial Project - GURIT Wind Pvt.Ltd

This project investigates how variations in pore morphology influence the mechanical performance of rigid cellular core materials. The study aims to optimize pore structure for improved strength, stiffness, and energy absorption.

3. Curing of Epoxidized Natural Rubber with sustainable sources

Mini Project

An environmental friendly effort was taken in the vulcanisation process of ENR. A sustainable source was found to replace the conventional vulcanising chemicals.

4. Isolation and Fractionation of Biopolymers

Honors Project

A Conventional method was identified for synthesizing biopolymers. This idea would help in similar such findings.