



Pranesh Mahendhran

CONTACT

66/2 Nehru Nagar
Sivanpuram colony,
Mettupalayam,
Coimbatore,
Tamil Nadu -643101

praneshm1720@gmail.com
+91-9751383262

EDUCATION

Bachelor of Technology in Chemical Engineering (July 2017 - April 2021)

Vellore Institute of Technology (Vellore Campus), INDIA

- Overall CGPA: 8.07/10

Higher Secondary (September 2015 - May 2017)

SVGV Matriculation Higher Secondary School

Mettupalayam, Coimbatore, Tamil Nadu

- 77% Aggregate

Secondary (September 2014 - May 2015)

Stanes Anglo Indian Higher Secondary School

Coonoor, Nilgiris, Tamil Nadu Exam

- 85% Aggregate

TECHNICAL SKILLS

Hands on experience with software like:

- Aspen- Plus
- COMSOL Multiphysics
- Pro simulator
- MATLAB
- Solidworks
- Microsoft office

RESEARCH INTERESTS

- Process Engineering
- Polymer Engineering
- Sustainable Energy
- Sanitation
- Membrane Separation
- Nutrient recovery
- Waste water management

WORK EXPERIENCE

Vellore Institute of Technology, Vellore

April 2018 — till date

Undergraduate Student Researcher

As an enthusiast in chemical engineering, I involved myself in Research during the early stages of my university education under the guidance of Dr. Mahesh Ganesapillai, Professor at VIT University and also an expert in Waste Management. During my research, I've worked on 2 research projects, "Effective Recovery of Nutrient through Urine Dehydration and Precipitation onto Different Biomass" (Research work Submitted for review in the journal Chemical Engineering Research and Design) and "The study of Nutrient adsorption from urine using microwave and UV pre-treated biomass".

Technoscape 2018

August 2017 — September 2018

Team Lead

Technoscape 2018 was an International Conference on Sustainable Water Resources: Innovations & Impacts that took place in Vellore Institute of Technology (Vellore Campus), INDIA on the 6th, 7th & 8th of September 2018. Here I was given the responsibility of being a Team Lead for which I worked for more than a year. I was given the task along with my colleagues to manage the entire conference in terms of Technical Support, Event Management, Catering, and Registration.

Vice-Chairperson

During my tenure as the Vice-Chairperson of the Indian Institute of Chemical Engineers VIT- Students chapter, I overlooked and managed student technical events, seminars, meetings, recruitment, and other social/welfare events conducted by IChE under the Department of Chemical Engineering of VIT Vellore.

Reliance Industries - Kakinada, India

June 2018 — July 2018

Industrial Intern

During my internship at Reliance Industries, I was assigned to the KGD6 Plant which is located on the east coast of Kakinada, INDIA which is known to be the largest natural gas reserve in India to date. I worked on a project titled "Salt recovery in MEG reclamation and regeneration".

ACHIEVEMENTS

- Achievers award in the Year 2018 & 2019: Participation in various national Technical Events and International conferences.
- Received a complete Travel Grant and stipend to stay at Yokohama National University - Japan from the Department of science and technology (DST)/ Japan Society for Promotion of Science (JSPS) to participate in Japan - India Symposium 2019 under the title "Development of sustainable Environment/ Energy Technologies in South India".
- National Winner (1st Position) "AIChE - Chem-a-thon 2019" from Vellore Institute of Technology, India.
- National Winner (1st Position) "Industrial Design Problem" from National Institute of Technology, Calicut, India.
- National Winner (3rd Position) "AIChE - Chem-a-thon 2018" from Vellore Institute of Technology, India.
- National Winner (1st Position) "Cheo-Propello" from National Institute of Technology, Calicut, India

COLLOQUIUM PRESENTATIONS

International Conferences

- Japan-India YNU Symposium 2020 - Science, Technology, and Innovations for SDGs in India and Japan.
Presented an Oral presentation on "Design and analysis for the removal of active pharmaceutical residues from synthetic wastewater stream" in (December 2020) at Yokohama National University- Japan which was guided by Dr. Mahesh Ganesapillai.
- Japan - India Symposium 2019 - Development of Sustainable Environment/Energy Technologies in South India.
Presented a Poster presentation on "Closed-loop nutrient recovery from human urine" in (December 2019) at Yokohama National University- Japan which was guided by Dr. Mahesh Ganesapillai.
<https://www.ynu.ac.jp/hus/kokusais/23355/detail.html>
- International Conference on Biomass, Fuels & Chemicals.
Presented an Oral presentation on "Effective Recovery of Nutrients Through Urine Dehydration and Precipitation Onto Different Biomass " (September 2019) at Annamalai University - Chidambaram which was guided by Dr. Mahesh Ganesapillai.
- International Conference on Biomass, Fuels & Chemicals.
Presented an Oral presentation on "A Review on the progress and evolution by ecological sanitation and nutrient recovery from human urine "(September 2019) at Annamalai University - Chidambaram which was guided by Dr. Mahesh Ganesapillai

KEY ACADEMIC PROJECTS

- Synthesis of Poly Lactic Acid (PLA) a biodegradable polymer, an alternative to poly-ethene.
- Hydrogen absorption using nanostructure compounds synthesized from pyrolyzed chicken feathers.
- Aspen plus simulation of dehydration of isopropanol.
- Simulation of PSA oxygen separator using Aspen adsorption and COMSOL Multiphysics.
- Development of cost-effective oxygen generators (prototype) using Pressure swing adsorption mechanism.