

SAHAN KARIYAWASAM

CHEMICAL AND PROCESS ENGINEER

CONTACT INFORMATION

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CAREER SUMMARY

A skilled Chemical and Process Engineer with extensive experience developing industrial processes and designing innovative machinery. Recognized for strong problem-solving abilities and a creative approach to engineering challenges. Focus areas include sustainable engineering, polymer engineering, environmental engineering, and food and bioengineering. Committed to leveraging technical expertise to optimize operations and promote sustainable innovation within the industry.

WORK EXPERIENCE

Trainee Chemical & Process Engineer | Silvermill Group, Loluwagoda. Dec 2023 - May 2024

- Designed a coconut oil extraction process from waste coconut milk and optimized resource utilization (30 – 50% coconut milk separation from waste coconut milk lines).
- Developed a coconut de-shelling process using heating and freezing techniques.
- Automated the counting conveyor system by integrating a sensor, reducing manual counting errors.
- Designed and optimized a condensate line system for the DC process dryer, enhancing operational efficiency and reducing downtime.
- Created a sterilized waste coconut milk collecting tank placement drawing.
- Conducted static simulation for the counter conveyor part, ensuring structural integrity.
- Developed the Piping and Instrumentation Diagram (P&ID) for the DC process line.

OTHER EXPERIENCE

Business Promotion Trainee | People's Bank, Nittambuwa Branch 2019- 2020

- Collaborated across multiple divisions, including Business Promotion, Loan Recovery, Savings, and Pawning, gaining hands-on experience in banking operations.
- Actively participated in 15+ promotional campaigns and developed strong communication skills.

EDUCATION

B.Sc. Eng. (Hons) in Chemical and Process Engineering | University of Moratuwa 2021-2025

Secondary Education | Bandaranayake College. Gampaha. 2009-2017

(G.C.E. O/L (8A's, 1C) and A/L (3A's) Examinations)

ACADEMIC PROJECTS

- Final Year Research Project: Recycling Multilayer Plastic Waste with Compatibilizer (Three-layer plastic recycling) 2025
- Final Year Project: Iso Propyl Benzene Separator Distillation Column Design (CDP II) 2025
- Isopropylbenzene production plant design (Comprehensive Design Project I) Dec 2024
- Fire tube boiler design (Mini Project) Oct 2023
- Distillation column designing (Guided project) Jul 2023

CERTIFICATIONS

- [Data Analytics for Lean Six Sigma Certificate](#) | University of Amsterdam (Online) May 2024
- [Six Sigma Yellow Belt Certificate](#) | LinkedIn Dec 2024
- [Six Sigma White Belt Certificate](#) | LinkedIn Dec 2024
- [Sustainability Foundations: Core Concepts Certificate](#) | LinkedIn Jan 2025
- [Customer Relationship Management Certificate](#) | HP Foundations Jul 2025

SKILLS

- **Technical and Engineering Skills:** Process Engineering, Aspen Plus, SolidWorks, CAD, Minitab, Microsoft Office, Adobe Illustrator
- **Soft Skills:** Sustainability Strategies, Time Management, Teamwork, Strong Documentation, Good Written Communication, Analytical Skills
- **Standard Operating and Compliance:** SOP
- **Food and Quality Assurance Skills:** Food Safety and Quality, GMP Strategies, GHP Strategies, Food Manufacturing

LEADERSHIP AND EXTRACURRICULAR

- Department food coordinator and facilitator | EXMO 23'
- Board Member | External affairs coordinator | Classical Music Society
- Main graphic designer | Research for You Club | Department of Chemical and Process Engineering
- Logo Designer | Department of Chemical & Process Engineering
- Past committee member | Chemical Engineering Student Society

PROFESSIONAL DEVELOPMENT

- Carbon Credit Projects: Evolution, Market Trends, and Opportunities Webinar | Control Union Academy March 2025
- Waste Water Treatment and Sludge Processing Course | University of Tyumen, Russia Sep-Dec 2024
- Unlock the Benefits of Life Cycle Assessment Webinar | Control Union Inspections PVT LTD Oct 2024
- SOP development session | Silvermill Group Jan 2024
- Stepping Stones' Mentoring Program | Department of Chemical and Process Engineering | University of Moratuwa 2023
- Career guidance program | INSEE Cement Dec 2022
- Information Technology (MS-Office) Course | Future World IPS Apr 2016
- Information Technology (Graphic Designing) Course | Future World IPS Apr 2016

NON-RELATED REFEREES

Dr. Mahinsasa Rathnayake

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