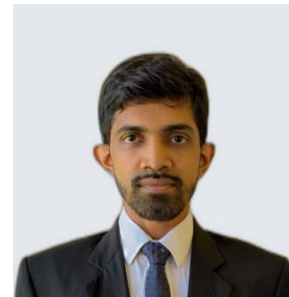


SAHAN KARIYAWASAM

CHEMICAL AND PROCESS ENGINEER

CONTACT INFORMATION

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Website : [Sahan Kariyawasam Website](#)



CAREER SUMMARY

A results-driven Chemical and Process Engineer from the University of Moratuwa with a strong foundation in mathematics and science. Possesses hands-on experience in manufacturing operations and process optimization gained through industrial training at Silvermill Group. A Lean Six Sigma Green Belt certified professional with demonstrated capabilities in data analysis, strategic problem-solving, and driving efficiency improvements. Exhibits strong leadership qualities, excellent communication skills, and a keen ability to operate independently.

WORK EXPERIENCE

Trainee Chemical & Process Engineer | Silvermill Group, Loluwagoda.

Dec 2023 - May 2024

- Designed a coconut oil extraction process from wasted 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 desiccated coconut 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 desiccated coconut 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 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
- [SAP ERP Essential Training](#) | LinkedIn Aug 2025
- [Six Sigma Green Belt Certification](#) | LinkedIn Aug 2025

SKILLS

- **Operational Leadership Skills:** Team Coordination, Safety Compliance, Good Communication
- **Technical and Engineering Skills:** Process Engineering, Aspen Plus, SolidWorks, CAD, Minitab, Microsoft Office, Adobe Illustrator, Production Planning, Process Mapping, Process Optimization
- **Soft Skills:** Sustainability Strategies, Time Management, Strong Documentation, Good Written Skills, Analytical Skills

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

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