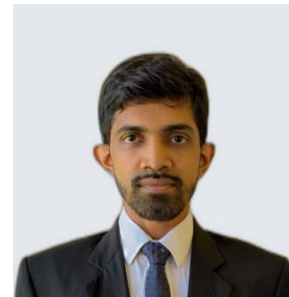


SAHAN KARIYAWASAM

CHEMICAL AND PROCESS ENGINEER

CONTACT INFORMATION

Mobile : +94 77 275 7644
E Mail : karsahan99@gmail.com
Postel Address : No. 64/2, Muruthawala, Pasyala, Gampaha.
LinkedIn : [Sahan Kariyawasam LinkedIn](#)
Website : [Sahan Kariyawasam Website](#)



CAREER SUMMARY

A proactive Chemical and Process Engineer with expertise in optimizing industrial operations, resource allocation, and team coordination. Skilled in Lean Six Sigma methodologies, process automation, and cross-functional collaboration. Focused on enhancing efficiency, reducing waste, and ensuring quality compliance in manufacturing environments.

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 (Expected to be completed) August 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
- **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

Dr. Mahinsasa Rathnayake

Senior Lecturer,
University of Moratuwa,
Sri Lanka.
Phone: +94 70 253 2785
Email: mrathnayake@uom.lk

Eng. Akila Dinuka

Plant Engineering Manager,
S.A. Silva and Sons Lanka (Pvt) Ltd,
Silvermill Group of Companies.
Phone: +94 71 336 6992
Email: akiladinu@gmail.com