

SAHAN KARIYAWASAM

B.Sc. Eng. (Hons) in Chemical and Process Engineering

PERSONAL

Full Name : Kariyawasam Haputhanthrige Sahan Chinthana Kariyawasam
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Nationality : Sri Lankan
NIC No : 981990137V



CAREER SUMMARY

I am a highly skilled Chemical and Process Engineer with extensive experience developing industrial processes and designing innovative machinery. I am known for my strong problem-solving abilities and creative approach to engineering challenges. I am proficient in food and bioengineering, environmental engineering, and have a deep understanding of various industrial processes. My final-year research project focused on developing a sustainable polymer engineering solution to address critical environmental challenges in plastic waste management. I am passionate about leveraging technical expertise to optimize operations and contribute to sustainable solutions in the industry.

WORK EXPERIENCE

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

- Designed and implemented a coconut oil extraction process from waste coconut milk, optimizing resource utilization and reducing waste (30 – 50% coconut milk separation).
- Developed a coconut de-shelling process using heating and freezing techniques, improving efficiency.
- 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.

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 AND CERTIFICATION

Bachelor's degree (B.Sc. Eng (Hons)) | University of Moratuwa 2021-2025

- 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
- Isopropyl benzene production plant design (Comprehensive Design Project I) Dec 2024
- Fire tube boiler design (Mini project) Oct 2023
- Distillation column designing (Guided project) Jul 2023

Secondary Education | Bandaranayake College, Gampaha. 2009-2017

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

Certifications

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| • Data Analytics for Lean Six Sigma University of Amsterdam (Online) | May 2024 |
| • Six Sigma Yellow Belt LinkedIn (Online) | Dec 2024 |
| • Six Sigma White Belt LinkedIn(Online) | Dec 2024 |
| • Sustainability Foundations: Core Concepts LinkedIn (Online) | Jan 2025 |

SKILLS

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|-----------------------|------------------------|
| • Solid Works | • Adobe Illustrator |
| • CAD | • HSE strategies |
| • Aspen Plus | • Problem solving |
| • Minitab | • Time management |
| • Microsoft Office | • Strong documentation |
| • Process Engineering | • Good communication |
| • Analytical Skills | • GMP Strategies |
| • Canva | • GHP Strategies |

VOLUNTEERING

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

PROFESSIONAL DEVELOPMENT

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| • 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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Eng. Akila Dinuka

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I hereby declare that the above-furnished particulars are true and accurate to the best of my knowledge.



Sahan Kariyawasam