



SAMEERA WAGAARACHCHIGE

R&D Engineer

Tampere, Finland
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 [LinkedIn](#)



Portfolio

EDUCATION

Mechanical Engineering and Production Technology

Tampere Adult Education Centre, Nirva Campus
Expected in June - 2025

Material Selection, CNC Edging, CAD/CAM
Programming, Robotics, and Data Modeling

Master of Computer Science (FSD)

Jamk University of Applied Sciences
Expected in December - 2025

MBA, Master of Business Administration

University of Suffolk, United Kingdom
Graduated: 10/2022

BSc Materials Science & Engineering

University of Moratuwa, Sri Lanka
Graduated: 06/2015
Focus: Metal, Polymer, Ceramic Engineering,
Construction Materials, and TQM

SKILLS

TECHNICAL SKILLS

- Product Design & Development
- Mechanical Design & Simulation
- Prototyping & Concept Development
- Acoustics & Sound Absorption Technologies
- Ventilation & Thermal Analysis
- Tolerance & Variance Management
- Design for Mass Production & Automation
- Materials Selection & Testing (Metals, Polymers, Ceramics)
- Manufacturing Processes & Quality Control (ISO 9001, ISO 14001)

SOFTWARE PROFICIENCY

- CAD/CAM: SolidWorks, AutoCAD, Mastercam
- Productivity Tools: MS Office Suite, MS Project
- Programming: Python, JavaScript, TypeScript, PHP, MySQL, PostgreSQL

LANGUAGE SKILLS

- Sinhala: Native
- English: Fluent
- Finnish: Basics

LICENSES & CERTIFICATIONS

- Occupational Safety Card (Valid EU-wide)
- EU Driving License (Categories A and B)
- Member, Society of Materials Science and Engineering (SOMSE)
- Associate Member, Institution of Engineers Sri Lanka (IESL)

PROFILE

Innovative and detail-oriented R&D Engineer with extensive experience in product development, mechanical design, and materials engineering. Proficient in 3D modeling, prototyping, manufacturing processes, and product lifecycle management. Adept at solving complex technical challenges and collaborating with cross-functional teams to develop cutting-edge solutions. Passionate about design for mass production, automation, sound absorption, and ventilation technologies. Seeking to bring my expertise to Framery to contribute to the development of world-class workplace solutions.

PROFESSIONAL EXPERIENCE

Design Engineer | Materials Engineer

ACCESS ENGINEERING PLC - 04/2021 – 08/2024

- Designed and developed mechanical solutions with SolidWorks and AutoCAD for product innovation.
- Led 3D modeling, 2D drafting, and prototyping for concept validation.
- Conducted materials selection and risk assessments to ensure product quality, manufacturability, and cost efficiency.
- Collaborated with cross-functional teams including procurement, manufacturing, and R&D.
- Ensured compliance with ISO 9001 and environmental regulations (ISO 14001).

Quality Assurance Engineer

EDWARD AND CHRISTIE COMPANY - 04/2017 – 04/2021

- Led quality assurance processes, including ISO documentation and non-destructive testing (NDT).
- Conducted prototyping and product validation for R&D projects.
- Worked closely with the supply chain team to optimize manufacturing workflows.
- Utilized tolerance & variance management to improve design consistency in manufacturing.

Materials Engineer | R&D Specialist

K D EBERT SONS & HOLDINGS (PVT) LTD - 08/2015 – 04/2017

- Conducted laboratory testing for materials including metals, polymers, and construction materials.
- Performed mechanical property assessments to improve product reliability.
- Managed test reports, compliance documentation, and technical manuals.
- Supported technology scouting for new materials in collaboration with subcontractors.

REFERENCES

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