

Akila Kulathunga

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PROFILE

Versatile mechanical engineering professional with a dual master's background in Industrial Engineering and Computer Science. Focused on merging traditional engineering principles with cutting-edge technologies to drive innovation in smart and connected manufacturing.

PERSONAL DETAILS

Full Name: Akila Indeewara Kulathunga WEERAPPERUMA ACHCHIATHUKORALAGE DON
Date of Birth: 20th October 1996

PROFESSIONAL EXPERIENCE

Academic Instructor, Department of Mechanical Engineering, Sri Lanka Institute of Information Technology, Malabe **Aug 2021 to June 2022**

- Conducting laboratory sessions for undergraduate students.
- Conducting tutorial classes for undergraduate students.
- Engage in administrative tasks related to the department.
- Aiding the lecturers for the teaching process at the University.

In-Plant Trainee, David Pieris Motor Company (Pvt) Ltd. Madapatha **Jan 2021 to April 2021**

- Practised the front and back-office activities of the workshop.
- Performed day-to-day operations of the workshop including repairing/ servicing of 2Ws, KTM motorcycles, 3W s and 4W vehicles, preparing estimates, parts ordering etc.
- Familiarized with the workshop management systems, practices and functional tools and methods.
- Familiarized with other supportive functions of the workshop division.

Trainee Engineer, United Tractor and Equipment (Pvt) Ltd. Wattala **Nov 2018 to Feb 2019**

- Underwent engine maintenance services and engine repair services.
- Identified the uses of diverse types of tools and personal protection equipment.
- Underwent assembly, repair and maintenance of heavy machinery and service inspections of CAT Generators.
- Repair, assembly, servicing, and pre-delivery inspection of material handling equipment.
- Completed projects on good housekeeping methods and technician career development process.

EDUCATION

Data Science and AI for Competitive Manufacturing **Sept 2022 to Aug 2024**
EIT Manufacturing Master School, Europe
Double Degree Master Program

MSc Computer Science (Competitive Manufacturing) **Sept 2023 to Aug 2024**
Università di Trento, Trento, Italy
Second year of the Data Science and AI for Competitive Manufacturing double degree programme offered by EIT Manufacturing

MSc Industrial Engineering (Smart and Connected Enterprise) **Sept 2022 to Aug 2023**
École Centrale de Nantes, France
First year of the Data Science and AI for Competitive Manufacturing double degree programme offered by EIT Manufacturing.

BEng Mechanical Engineering (Hons), Curtin University, Australia 2:1 **Feb 2017 to Sept 2021**
Second Class (Upper Division)

Chartered Institute of Management Accountants **Sept 2016 to Jan 2017**
Certificate in Business Accounting

RESEARCH / PROJECT EXPERIENCE

MSc Computer Science (Competitive Manufacturing) Università di Trento, Italy **Sept 2023 to present.**

- A collaborative project with Bonfiglioli Italia, aimed at enhancing productivity and minimizing waste through the implementation of autonomous predictive maintenance.

EIT Manufacturing Summer School 2023, University College Dublin, Ireland **July 2023**

- Collaborated in a team-based challenge focused on waste reclamation and the revaluation of a startup company, integrating principles of circular economy.
- Gained valuable perspectives on the entrepreneurial mindset, with a focus on client engagement, creativity, and innovation.

BEng Mechanical Engineering (Hons), Curtin University, Australia 2:1 **Feb 2017 to Sept 2021**

- Bachelor's thesis, under Prof. Chandana Perera
 - Development of a maintenance plan for a leading poultry farm in Sri Lanka by identifying different maintenance practices

TECHNICAL SKILLS

Programming Languages: Python

Tools and Technologies: AutoCAD, SolidWorks, ANSYS, MATLAB, FlexSim, Enterprise Modelling Tools (Ramus, Star UML, Bizagi Modeler), Microsoft Office Package

Others: Machine Learning, Process Design, Lean Manufacturing, Data Mining, Project Management, Industrial Engineering, Design Engineering, Team Building, Innovation and Entrepreneurship, Problem Solving

Platforms: Microsoft Windows

LANGUAGES

- English (Fluent) - **IELTS** (Overall Band Score – 7.0)
- Sinhala (First language)
- French (Beginner)