

**Akila WEERAPPERUMA**

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## **PROFILE**

An engineering student of a dual master's program in Industrial Engineering and Computer Science with a background in mechanical engineering, seeking opportunities starting September 2024 in the fields of digital twin, system engineering, process engineering and manufacturing systems engineering.

## **TECHNICAL SKILLS**

*Programming Languages:* Python

*Software:* CAD/CAE (AutoCAD, SolidWorks, ANSYS), Simulation Tools (MATLAB, FlexSim), Enterprise Modelling Tools (Ramus, Star UML, Bizagi Modeler), Microsoft Office Package including Excel VBA

Digital Twin, Lean Manufacturing, Project Management, Lean Management, Workplace Ergonomics, Process Engineering, Design Engineering, Data Analysis, Data Mining, Machine Learning

## **PROFESSIONAL EXPERIENCE**

*Mar 2024 to present. Student Internship, Ecole Nationale Supérieure en Génie des Systèmes et de l'Innovation, Equipe de Recherche sur les processus Innovatifs, Université de Lorraine, Nancy, France*

- Collaboration on joint research to bridge gaps between ergonomic considerations and productivity enhancement.
- Integration of discrete event simulation tools, Lean management, ergonomic studies, and digital twin concepts for comprehensive process improvement.

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

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

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

- Practised the front-office activities, back-office activities, and supportive functions 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.

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

- 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 & material handling equipment and service inspections of CAT Generators.
- 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

*Notable Subjects: Data Mining, AI and Innovation, Innovation and Entrepreneurship in ICT*

**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. (GPA: 3.56 /4)

*Notable Subjects: Discrete-Event Simulation, Enterprise Modelling & Management, Computer Science and Mathematics, Statistics and Data Analysis, System Engineering*

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

Second Class (Upper Division) (Course Weighted Average 67.82)

**Chartered Institute of Management Accountants**

**Sept 2016 to Jan 2017**

Certificate in Business Accounting

## RESEARCH / PROJECT EXPERIENCE

**Equipe de Recherche sur les processus Innovatifs, Nancy, France** **Mar 2024 to present.**

- Engaged in collaborative research project at ERPI Laboratory and TEA Ergo, integrating simulation tools and Lean management with ergonomics. Exploring industrial performance impacts and developing virtual workstation simulations. Aiming to bridge ergonomic and Lean management approaches.

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

- Collaborated on a predictive maintenance project with Bonfiglioli Italia, using data analytics to forecast cutting tool failures based on load variations across programs, enhancing productivity and reducing waste.

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

- Collaborated within a cross-functional team challenge, leveraging expertise in circular economy principles, sustainable resource management, and entrepreneurial strategies to deliver innovative solutions for waste reclamation and startup company revaluation.

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

- Bachelor's thesis development of a maintenance plan for a leading poultry farm in Sri Lanka by identifying different maintenance practices.

## LANGUAGES

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

## SOFT SKILLS

Team Collaboration, Communication, Adaptability, Problem Solving, Creativity, Continuous Learning, Leadership, Time Management, Entrepreneurship