# Thejasvenan Thirukkumaran

✉ thejasvenan2002@gmail.com | ☎ 071 616 5555 | in linkedin.com/in/thejasvenan-thirukkumaran
○ github.com/Thejasvenan | ◉ Colombo, Sri Lanka

## Professional Summary

Mechatronics undergraduate with expertise in robotics, IoT, and embedded systems. Proven leadership in international collaborations and educational & technical projects. Seeking impactful internships to innovate in automation, AI integration, and smart system design.

## Education

**University of Moratuwa**, BSc (Hons) in Mechanical Engineering — Feb 2023 – July 2027 (Expected)
- Current GPA: Available upon request/4.0

**Jaffna Hindu College**, GCE Advanced Level (Physical Science), Ordinary Level — Jan 2013 – Feb 2022
- A/L Resutls: 3A (Z-score: 2.7139, Island Rank - 25)
- O/L Results: 9A (including Information & Communication Technology and Business & Accounting studies)

## Experience

**International Relations (IR) Manager**, AIESEC in University of Moratuwa — Aug 2023 – Jul 2024
- Led international collaborations for volunteer project opportunities

**Volunteer**, Mora Exams — Nov 2022 – Oct 2024
- Supervised and evaluated island-wide A/L pilot exams; handled paper formatting and live-stream discussions
- Led the creation and coordination of copyrighted online practice papers with a team of undergraduates

## Projects

**Reverse Engineering of an Angle Grinder** — Feb 2025 – April 2025
- Disassembled and analyzed the **armature shaft**, studying material and proposing **hybrid forging-machining method** for improved performance and manufacturability.

**Weather Monitoring System** — Sep 2024 – Dec 2024
- Developed a real-time Weather Station with **IoT architecture**, **ESP32**, and **data visualization dashboard**

**Fabrication of Charcoal Stove** — July 2024 – Aug 2024
- Used **woodworking**, **spot welding**, and **sheet metal forming** in a hands-on team project

**SENTRI: Automated Pickup & Cleaning Robot** — March 2024 – Aug 2024
- Designed **navigation system** for an autonomous cleaning robot with **line following** and **obstacle detection**

**PrescriptX – Smart Prescription Management Web App (IDEALIZE 2024)** — May 2024 - Aug 2024
- Collaborated on a web-based solution to analyze and digitize medical prescriptions

## Certifications

- MATLAB, Simulink & Simscape Onramps – MathWorks *(May 2025)*
- Linux Basics & Computer Networks – Programming Hub *(Jun 2025)*
- Participant (PrescriptX) – IDEALIZE 2024 (AIESEC in UOM) *(Aug 2024)*

## Language and Skills

**Spoken Languages:** Tamil (Native), English (Professional), Sinhala (Basic), Japanese (Beginner)
**Programming Languages:** Python, C++
**Technologies:** Arduino, Raspberry Pi, AutoCAD, SolidWorks, MATLAB, LabVIEW

*LinkedIn Profile*