

LAKMAL WIJETHUNGA

 [linkedin.com/in/lakmalwijethunga](https://www.linkedin.com/in/lakmalwijethunga)

 [lakmal-wijethunga.github.io/portfolio_site/](https://github.com/lakmal-wijethunga/portfolio_site/)

 x.com/lakmal_wijethunga



From: Mirigama, Sri Lanka **Mobile Number:** 076 86 81 539 **E-mail:** mpplwijethunga@gmail.com

PROFESSIONAL SUMMARY

Innovative 3D Visualizer and Electronics/Physics graduate with a strong foundation in generative AI, computer vision, and rapid prototyping. Proven ability to bridge technical constraints with high-end aesthetic requirements, utilizing tools like Blender and CLO 3D to deliver photorealistic automotive and product renders. Passionate about leveraging open-source AI models, 3D printing, and hardware integration (R&D) to build automated, intelligent systems.

CORE COMPETENCIES & TECHNICAL SKILLS

- **3D Visualization & Prototyping:** Blender 3D, CLO 3D, Fusion 360, Photorealistic Rendering, Texturing, 3D Printing & Rapid Prototyping.
- **AI & Machine Learning:** Generative AI (Stable Diffusion, LLMs), Computer Vision integration.
- **Programming & Development:** Java, Web Development, Systems Integration.

PROFESSIONAL EXPERIENCE

3D Visualizer | R&D Executive

Edirisingha Cushion Works (Pvt) Ltd | 2025 – Present

- Lead the dual pipeline of 3D visualization and product development for high-end automotive interior modifications, accelerating client approval times.
- Translate abstract concepts into precise 3D models and functional designs, ensuring seamless translation from digital render to physical workshop fabrication.
- Conduct R&D on materials, spacing, and structural components to optimize product durability, comfort, and aesthetic alignment with luxury standards.
- Utilize rapid prototyping and 3D printing techniques to test and validate design components prior to mass production.

IT Support Specialist

R S Wickramasinghe & Company (Pvt) Ltd | 2021 – 2022

- Diagnosed and resolved complex hardware and software issues across site operations, ensuring maximum system uptime and reliability.
- Collaborated with internal teams to implement technical improvements, optimizing overall system functionality and performance.

RESEARCH & DEVELOPMENT PROJECTS

Smart Monkey Repellent System (AI & Electronics)

Academic Research Project

- Engineered an automated, AI-powered deterrent system using an ESP32-CAM module to achieve real-time monkey detection via computer vision.
- Designed and integrated a Class D amplifier for emitting specific deterrent sounds, paired with a GSM module for instant SMS alerting.
- Delivered a viable, non-harmful technological solution to mitigate local human-wildlife conflicts.

Smart Monkey Repellent System (AI & Electronics)

- **BoardingHub:** Developed a comprehensive Java-based management system to streamline boarding house operations.
- **Juice Bar Management System:** Built a web-based application to optimize inventory and sales tracking for a retail client.

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From: Mirigama, Sri Lanka **Mobile Number:** 076 86 81 539 **E-mail:** mpplwijethunga@gmail.com

EDUCATION

Bachelor of Science in Physics and Electronics | 2025

University of Kelaniya

G.C.E. Advanced Level Examination | 2020

Bandaranayake College, Gampaha

G C E Ordinary Level Examination | 2016

Wickramashila National School | Giriulla

EXTRACURRICULAR LEADERSHIP

Editor | Committee Member

Astronomy and Space Science Association

University of Kelaniya

Editor | Committee Member

Electronics Students Society

University of Kelaniya

Editor | Committee Member

Physics Students Society

University of Kelaniya

Member

Legion Club

University of Kelaniya

REFERENCE

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