


DESHAN THRIMANNA

Electrical Engineering Undergraduate

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SUMMARY

Aspiring Electrical Engineering undergraduate with a passion for developing innovative, data-driven solutions. Skilled in data analysis, programming, and problem-solving, with a growing interest in machine learning and AI. Proven strengths in mathematics, analytical thinking, and technical project work through academic excellence and hands-on experience.

SKILLS

Languages: Python, JavaScript, Java
Software Tools: MATLAB, LabView, LTSpice, Solid Works, PSCAD
Frameworks: ReactJs, OpenCV, PyTorch
Soft Skills: Team Collaboration, Adaptability, Problem solving , Customer service
Other: Latex, Photoshop, AfterEffects, Illustrator





EXPERIENCE

- 2023 - 2024 **Calcey Springboard Learner**
- A program comprising MOOCs (Massive Open Online Courses) from the world's best universities such as Harvard, Georgia Tech, IBM, University of Michigan.
 - Learners were guided by Calcey's engineering leaders.
 - Weekly mentoring sessions and interactions with seasoned tech industry veterans.
- 2022 - Present **Motion Graphic Designer (Freelance)** 
- Successfully completed over 40 projects, consistently receiving positive feedback.
 - Collaborated with clients from 18+ countries, developing skills in communication, time management, and adaptability, which are valuable for mentoring.

EDUCATION

- 2023 - Present **BSc.(Hons) Electrical Engineering (UG)** **University of Moratuwa**
CGPA: 3.61/4.00 (End of Semester 4)
- 2013 - 2022 **G.C.E. Advanced Level Examination (Physical Science)** **Taxila Central College - Horana**
3As | Island Rank - 181

PROJECTS

- 2025 **Keeper Smart Pet Feeder | IoT, AI-Powered Pet Care Automation** 
- Developed an intelligent pet feeder that detects pets and automatically dispenses food based on real-time monitoring. The system adjusts feeding portions using a load cell and ensures accurate food levels with a custom sensor.
 - Integrated Firebase for remote control via a mobile app, enabling scheduling and tracking of feeding times and portions.
- 2024 **Agriculture Quadcopter Simulation | MATLAB, Solid Works, Simulink** 
- Developed a simulation model of a quadcopter designed for agricultural applications, focusing on dynamic flight behavior and flow analysis.
 - Utilized MATLAB and Simulink to model UAV dynamics, control systems, and environmental interactions for efficient and sustainable farming practices.
- 2025 **Smart Medibox | ESP32, NodeRed** 
- Designed a smart medicine box to enhance medication management, utilizing an ESP32 microcontroller to control sensors, actuators, and communication modules for effective schedule management.
 - Implemented a user-friendly Node-RED dashboard to manage the functions of the ESP32 Medibox effectively.
- 2025 **Smart Travel Planner & Budget Optimizer | JavaScript, ReactJS, Node.js, MongoDB** 
- Developed the TripMate application, a smart travel planner and budget optimizer, designed to help users plan their trips efficiently by managing itineraries and optimizing budgets.
 - Collaborated on API integration to fetch real-time travel data and enhance user experience.

CERTIFICATES & COURSES

• Deep Learning Specialization (In Progress)	Coursera
• Machine Learning Specialization	Coursera
• Harvard CS50's	edX
• Agile and Scrum Fundamentals	IBM
• Front-End Web Developer	edX

RELATED MODULES

- Control Systems - **A+**
- Engineering Systems Design - **A+**
- Digital Signal Processing - **A**
- Electrical Measurements and Instrumentation - **A+**

INTERESTS

- Machine Learning
- Control & Automation
- Smart Power Systems
- Artificial Intelligence

HONOURS & AWARDS

2024	University of Moratuwa Colours Insignia Awarded the University Colours for outstanding performance and winning the Tennis championship at the Inter University Games 2024.	University of Moratuwa
2024	Inter University Tennis Championship (Champions) Part of the University of Moratuwa tennis team that won the Inter-University Tennis Championship 2024, the premier annual event in university sports.	Sri Lanka Universities Sports Association
2024	Finalist – IESL RoboGames Selected as a finalist in IESL RoboGames 2024, a premier national robotics competition organized by the Institution of Engineers, Sri Lanka.	IESL University of Moratuwa

LEADERSHIP & VOLUNTEERING

• Design Lead	Prakampana '25
• Member	University of Moratuwa Tennis Team
• Pillar Member - Marketing Pillar	Electrical Engineering Society - University of Moratuwa
• Member - Designing Team	EESCon 24 - International Conference on Electrical Engineering EESpire '24 - Carrer Fair Spark Magazine

REFERENCES

Dr. V. Logeeshan
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