



MELVIN MONCY

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Summary

Forward-thinking Electrical & Electronics Engineer currently pursuing an M.S. in Robotics, specializing in the intersection of autonomous systems and embedded intelligence. Proficient in Embedded C programming and hardware-software co-design, with a unique edge in leveraging Generative AI (ChatGPT, Gemini) to accelerate firmware development, debugging, and system architecture. A calculated risk-taker with a proven track record of solving complex technical bottlenecks, dedicated to building the next generation of intelligent robotic platforms.

Work Experience

Project Coordinator

Force Education Institution, Pathanamthitta, Kerala [06/11/2023 – 25/02/2025]

Country: India

- Monitored and tracked the day-to-day advancement of technical and academic projects, ensuring alignment with electrical and electronics engineering principles.
- Organized and coordinated project-related meetings, including the scheduling and logistical arrangements, with a focus on technical discussions pertinent to electrical and electronics systems.
- Assisted in the procurement and management of essential materials and equipment required for project operations, specifically tailored to engineering projects.
- Collaborated with cross-functional teams to integrate technical knowledge of electrical and electronics systems into project deliverables, ensuring a seamless workflow.

Education and Training

Masters in Robotics

Deggendorf Institute of Technology [2025-present]

Bachelor of Engineering in Electrical and Electronics Engineering

Mar Ephraem College of Engineering and Technology [01/07/2019 – 01/09/2023]

Projects

Automatic Wastebin

- Automatic waste bins, also known as smart recycling bins, are technologically advanced waste containers that can help improve waste management and recycling. They can include sensors, connectivity features, and data analytics tools to help with recycling and trash management. Some of the features of automatic waste bins include
- Automatic opening: Some automatic waste bins use infrared sensors to open automatically, allowing you to dispose of waste without touching the lid.
- Automatic sorting: Some automatic waste bins use image recognition and robotic technology to identify and segregate different waste streams.
- Compaction: Some automatic waste bins can compact waste.

Automatic Drawing and Writing Machine

We have the technologies like automatic speech writing machine, TTS, speech to text output, printers, scanners, etc. But the basic problem is it only writes only those fonts which the computer already has. That is Roman, Calibri, Arial, Impact, Georgia, etc. We want a machine which can write the full matter on a page by the ink of pen in our own personal hand writing. By using the concepts like CNC machines, wooden CNCs which make the design on wood by giving accurate feed to the driller . Similarly, we can use this Technology to make a machine for writing purpose also.

Add-on Courses

Professional BIM Training in Drafting and Modeling [08/2023-10/2023]

ACE India Training and Services

MEP Diploma in Heating,Ventilation and Air Conditioning [08/2023-10/2023]

ACE India Training and Services

MEP Diploma in Fire Fighting and Plumbing [08/2023-10/2023]

ACE India Training and Services

Skills

Languages: *Embedded C and C programing*

Technologies: *Chatgpt , Gemini*

Languages

English (B2(CEFR) – IELTS General Test Report Form (TRF) No.: 24IA542446MONM008A) ,level)

German (Beginner, currently learning A2