ADITYA MENON

FINAL-YEAR B.TECH ELECTRONICS AND COMMUNICATION | EMBEDDED SYSTEMS

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EDUCATION

B.Tech, Electronics and Communication Engineering Expected May 2027
Lakeshore Institute of Technology, Kochi. CGPA 8.31 / 10 after Semester 6

Courses: Digital Signal Processing, Embedded Systems, Microprocessors, VLSI Design

Class XII, State Board, Greenfield Higher Secondary School, Kochi 2023
92.6%

Class X, State Board, Greenfield High School, Kochi 2021
95.2%

TECHNICAL SKILLS

Embedded systems: C, Embedded C, STM32 basics, Arduino, UART, I2C, SPI, ADC sampling, relay and sensor interfacing

Design and analysis: MATLAB, Proteus, KiCad, circuit analysis, digital filter design, oscilloscope and multimeter use

Programming and tools: Python (basics), Git, GitHub, Linux command line

PROJECTS

Soil Moisture Irrigation Controller, STM32, C, I2C sensors Jan 2026 - Apr 2026

- Simulated the sensor circuit in Proteus, then built a controller that reads three soil moisture sensors and switches a pump relay, and tested it on a small plant bed for four weeks.
- Wrote the sampling and threshold logic in C and logged readings to an SD card so the thresholds could be calibrated against real data.
- Averaged ten readings per sample after early tests showed noise, which cut false pump starts from five in the first week to one in the last.

FIR Filter Design for ECG Noise, MATLAB, course project for Digital Signal Processing Aug 2025 - Nov 2025

- Compared low-pass and notch filters on public ECG recordings in a team of four and chose a 50 Hz notch filter that removed mains hum while keeping the QRS peaks visible.
- Wrote the MATLAB script and the report section on filter order and cutoff choices.

INTERNSHIP EXPERIENCE

Electronics Intern, Meridian Controls Pvt. Ltd., Kochi May 2026 - Jun 2026

- Assembled and tested 25 sensor boards on the production line and logged each failure in a shared sheet for the supervisor.
- Followed the soldering and ESD checklist and reworked four boards with cold joints found during testing.
- Documented a five-step test procedure for a flow sensor board, which the shift team used for the rest of the batch.

POSITIONS OF RESPONSIBILITY

Technical Coordinator, Electronics Club, Lakeshore Institute of Technology Aug 2025 - Present

- Organized a two-day PCB design workshop in KiCad for 60 first-year students and arranged lab slots and parts for 15 working groups.
- Maintain the club's component inventory and the sign-out sheet for 20 development boards.

CERTIFICATIONS AND TRAINING

MATLAB Onramp, MathWorks 2025
Introduction to Embedded Systems, online course 2025