Ayushi Lathiya

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Education

L. D. College of Engineering [*link*] **2022 – 2026**
Bachelor of Engineering in Electronics & Communications *Ahmedabad, Gujarat*

Relevant Coursework

- Embedded Systems
- Internet of Things(IoT)
- Digital VLSI Design
- Design Verification
- Microcontrollers
- Signal Processing
- Wireless Communication
- Data Acquisition
- Computer Architecture

Experience

Google Developer Student Club (GDSC) - LDCE [*link*] **Nov 2023 – Oct 2024**
Team Member *Ahmedabad, Gujarat*

- Curated technical content for various GDSC events, ensuring engaging and informative sessions for attendees.
- Gained hands-on experience with Android Studio, Open Source Contributions, and Machine Learning Basics through TensorFlow events and the Google Cloud campaign.
- Actively participated in organizing and hosting tech workshops, fostering a learning environment for peers.

Wizdom: Books and Podcasts Summaries in 15 Min [*link*] **Apr 2024 – Jul 2024**
Content Writer (Internship) *Remote*

- Created compelling and concise book summaries and articles, simplifying complex ideas for a broader audience.
- Developed structured, high-quality articles aligned with Wizdom's editorial standards.
- **Published Articles :** Wizdom/Ayushi [*link*]

Mastermind Education **Jun 2022 – Feb 2024**
Teaching Assistant *Ahmedabad, Gujarat*

- Provided academic support to over 150+ students (grades 8–10), simplifying core concepts to improve comprehension.
- Designed interactive lesson plans to enhance student engagement and retention of fundamental topics.

Projects

ECG Diagnosis at Home | *AD8232, ThingSpeak, Firebase, MIT App Inventor* **Feb 2025**

- Designed a home-based ECG monitoring system using the AD8232 sensor and ESP8266 NodeMCU, enabling real-time heart signal acquisition.
- Integrated Firebase to store serial plotter ECG data, allowing users to download the ECG graph from the app.
- Developed an MIT App Inventor-based mobile app to visualize ECG waveforms and BPM in real-time.
- Currently in development: Implementing an AI-powered ECG analysis feature to provide health insights and anomaly detection.

WiFi-Controlled Car | *ESP8266, IoT, Mobile App Development* [*link*] **Jan 2025**

- Developed an IoT-powered car using the ESP8266 microcontroller, enabling wireless control via a custom mobile application.
- Designed and implemented the car's circuitry, integrating motors and sensors for responsive navigation.
- Created a user-friendly mobile app interface to control the car's movements and monitor real-time data.

Sensor-Driven 3D Modeling | *Sensors, 3D Modeling, Data Visualization* [*link*] **Dec 2025**

- Developed a system that captures sensor data to generate dynamic 3D models, providing a visual representation of environmental parameters.
- Utilized Three.js to create interactive 3D visualizations based on the sensor inputs.
- Designed web-based platforms to visualize data dynamically in a browser environment, enhancing user experience.

Technical Skills

Languages: C, C++, Python, HTML/CSS, JavaScript, Embedded C, MicroPython, Verilog
Developer Tools: VS Code, Firebase, Google Cloud, Vercel, Android Studio
Frameworks/Libraries: Three.js, Git, GitHub, NumPy, Matplotlib

Blogs / Publications

1. **Ultimate Beginner's Guide to Making a WiFi-Controlled Car** [*link*] **2025**
2. **Sensor-Driven 3D Modeling Using Data and Sensors** [*link*] **2025**