Aryan Panwar

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Portfolio- aryanpanwar.in

Summary

Final-year ECE student with hands-on experience in embedded systems, industrial instrumentation, and IoT automation. Shipped two real-world products to live users — a production Android AI app and an open-source voice platform. Actively exploring Agentic AI, Large Language Models (LLMs), and edge AI as a bridge between hardware expertise and emerging technology.

Education

B.Tech — Electronics & Communication Engineering | *MIET Meerut*   *Meerut, UP | 2022 – 2026*
Senior Secondary (Class XII) | *Shardein School*   *Muzaffarnagar, UP | 2020 – 2022*

Experience

Assistant, Instrumentation Dept. (Internship) | *Indian Potash Limited*   *Muzaffarnagar, UP | Jun – Aug 2025*
- Calibrated RTD Pt100 sensors, pressure transmitters, and electromagnetic flowmeters using HART communicators and dead weight testers in live process control environments
- Conducted field testing and troubleshooting of industrial instrumentation; gained hands-on exposure to Safety Instrumented Systems (SIS) and Emergency Shutdown (ESD) protocols

Projects

FitWardrobe — Privacy-First AI Stylist App | Founder & Product Lead | AI, Android, Local-First | fitwardrobe.me | 2026

- Conceived and launched a production Android app (v1.0.1) with on-device AI outfit suggestions and local-first privacy architecture — zero wardrobe data on servers; Google Play & App Store release coming soon
- Managing full product lifecycle: APK distribution, community growth (Telegram/Instagram), user feedback, and roadmap

Mithivoices — Open-Source AI Voice Platform | Creator & Maintainer | Python, FastAPI, React, Piper TTS, Whisper STT | GitHub | 2025–26

- Built and maintain an open-source TTS/STT platform with 19 neural voices across 8 languages; released v0.2.0 (Jan 2026) with multi-LLM support and modular architecture
- Directed CI/CD pipeline via GitHub Actions; managing active open-source community and contributions

Wireless EV Charging System | Arduino, Inductive Power Transfer (IPT), IoT | GitHub | 2025

- Developed Arduino firmware with automated vehicle detection achieving 95% positioning accuracy; designed resonant IPT circuit with 85% energy transfer efficiency and emergency shutdown

Smart Staircase Lighting System | Arduino, IR Sensors, IoT Automation | GitHub | 2023

- Designed motion-activated sequential LED control system achieving 45% energy reduction via intelligent IR detection and non-blocking millis() timing logic
  Additional projects: github.com/Aryanpanwar10005

Technical Skills

Programming	Embedded C/C++, Python, Arduino (C/C++)
Microcontrollers	Arduino (ATmega328P), 8051 Microcontroller
Protocols	UART, I2C, HART Protocol (industrial)
Hardware	Sensor Integration, Circuit Design, Prototyping, PCB Design Basics
AI/ML Tools	Piper TTS, Whisper STT, LLM APIs, On-Device AI
Industrial	Process Instrumentation, Calibration (RTD/Pressure/Flow), SIS, HART
Test Equipment	Oscilloscopes, Multimeters, Function Generators, Logic Analyzers
Dev Tools	Arduino IDE, PlatformIO, LabVIEW, MATLAB

Areas of Interest & Currently Exploring

Agentic AI & LLMs — agent frameworks, prompt engineering, LLM APIs | **Edge AI & IoT** — on-device ML, embedded AI | **Data Analysis** — Python data pipelines