

Anagha John

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SKILLS

Languages:	C++, C, Python, SQL
Tools/Platforms:	Arduino IDE, ESP-32, proteus , Tinkercad, Solidworks, Ansys ,Logixpro, Cadence, Matlab
Soft Skills:	Problem-Solving, Team Player, Project Management, Adaptability, Multitasker, Public Speaker , social being.

TRAINING

Automate X – PLC based training for Industrial Automation	Jun' 25 – jul'25
Intern	

- Designed ladder logic programs using LogixPro and TwidoSuite for motor, conveyor, and process control systems, applying timers, counters, and interlocks for safe and reliable operation.
- Implemented and debugged PLC control logic in simulated industrial setups to ensure smooth and accurate system performance.
- Created and tested automation workflows that simulated real factory processes by configuring digital and analog I/O modules and optimizing control strategies based on system response.

PROJECTS

Hybrid UAV System 	Sept' 25
<ul style="list-style-type: none">Designed a cooperative drone system where a fixed-wing UAV performs high-altitude wide-area scanning using AI-based detection.Implemented coordination between a fixed-wing UAV and a rotary drone, enabling the rotary drone to navigate to detected locations and capture close-range visual confirmation.Created a real-time control dashboard to display detection time and location, supporting rapid decision-making for search and rescue operations.	
Smart Irrigation System 	Mar' 25
<ul style="list-style-type: none">Designed a smart irrigation system using soil moisture and temperature sensors to automate plant watering.Implemented microcontroller-based control logic with Arduino to optimize water usage and prevent over-irrigation.Created an integrated sensor and pump control system as a cost-effective and eco-friendly solution for agriculture and home gardening.	
Smart IOT Autoflow Well Management 	Dec' 24
<ul style="list-style-type: none">Designed a pressure transducer-based instrumentation system integrated with the well cap to measure hydraulic head in artesian (autoflow) wells by converting pressure signals into calibrated water level data.Implemented an IoT-enabled control and monitoring unit to regulate well discharge using a smart tap mechanism, enabling remote supervision of pressure and flow parameters.Created an automated protection and flow regulation module using a solenoid valve and flowmeter for real-time flow measurement, emergency shutoff, and system safety.	

PATENTS

Method and Apparatus for measuring Autoflow Height in Artesian Wells 	Jan'25
Patent application no: IN202511047794	

- IOT-enabled flow control system for Artesian Wells.
- Used ML to predict flow, mitigating landslide risks.
- Real-time monitoring for efficient water management.

CERTIFICATES

- Automate X – PLC based training for Industrial Automation
 - Python Course for Beginners |Scalar
 - Complete guide to build IOT things from scratch to market| Scalar
- June’25

May’ 24

Apr’ 24

ACHIEVEMENTS

- Smart India Hackathon 2024 Winner**

Dec’24

 - Designed a pressure transducer–based system integrated with a well cap to measure water head in autoflow (artesian) wells.
 - Implemented a smart IoT-based control system with a tap mechanism to regulate water flow and monitor well pressure.
 - Created an automated safety setup using a solenoid valve and flowmeter to display calculated water level above ground and support emergency control.
- ISRO Agnirna Space Internship Program Participant**

Aug’24

 - Completed an 8-week (80-hour) internship program by Agnirna, successfully accomplishing all 440 learning and practical steps focused on space science, technology, and research applications.

EDUCATION

- Lovely Professional University**
Bachelor of Technology
Electronics and Communication Engineering; Current CGPA: 7.03

Phagwara, Punjab

Aug’ 23 – Present
- Carmel HSS Chalakudy**
Intermediate
PCM; Percentage: 94%

Chalakudy, Kerala

june’ 20 – Mar’ 22
- Crescent Public School**
Matriculation
Percentage: 79%

Chalakudy, Kerala

June’ 19 – Mar’ 20