

Rajendra Vaishnav

Mobile : 8184809794

E-Mail : rajendravaishnav34@gmail.com

Objective:

To be a part of organization where I can utilize my inherent talent, to contribute my skills to the organization's vision and mission and be a part of the team that progressively works towards the growth of organization.

Experience:

1) Worked as an **R&D Engineer and Home Automation Project Incharge** (March 2020 – July 2025) at **GLOLED Pvt. Ltd.**, Kukatpally, Hyderabad.

Job Responsibilities:

- Performed **hardware testing, troubleshooting, and validation** of electronic prototypes to ensure functionality and reliability.
- **Designed, developed, and programmed custom embedded products** based on **ESP32, Raspberry Pi 5, Raspberry Pi Pico**.
- Developed and debugged **firmware** using **C/C++, MicroPython, VSCode** and **Arduino IDE**, integrating **UART, I²C, SPI, and Wi-Fi** communication protocols.
- Designed and tested **power management circuits**, including **DC-DC converters** and **LDO voltage regulators**.
- Prepared detailed **technical documentation**, including **test reports, schematics, and Bills of Materials (BOMs)** for prototype and production stages.
- **Collaboration** with team to ensure that designs are integrated into the overall project plan.
- **Conduct site visits** to assess readiness and provide **customized lighting and home automation solutions**.
- **Explaining and suggesting** the most suitable options along with their applications and advantages.
- **Coordination with the installation team** to ensure smooth execution from installation to final implementation.

➤ **Key Projects:**

1. Raspberry Pi 5, OpenCV and AWS based face recognition security system.
2. Price Telling Voice Assistant System using Raspberry pi
3. Smart Home Automation System Controlled by Remote, Touch, Wi-Fi.
4. Pantaloons Trial Room Controller
5. HC-12 and Esp32 Based Calling System
6. Pcb Defect Detection System
7. Ambient Light Control System
8. Staircase Lighting Controller using Rpi Pico

- 2) 2 Year Experience as **SMT Operator** (Sept 2018-Feb 2020) at **Bigapple Lifestyle Pvt. Ltd.** Azamabad, Hyderabad.

Job Responsibilities:

- Program machine's profiles/packages according to blueprints and schematics.
- Screen solder paste onto blank circuit boards through the pneumatic computer.
- Adjusting machines as necessary, load programs and set up feeders for SMT line.
- Bake unsoldered boards in a reflow oven.
- Making samples of new products and repairing of products returns from customers.

- 3) 1 Year Experience in **R&D Department** (Aug 2017-Sept 2018) at **Bhagyashree Industries**, Bahadurpally, Hyderabad.

Job Responsibilities:

- Maintenance and Monitoring of Various Projects.
- Thermal, Electrical, Surge and HI-Pot Test of Various Projects.
- Testing of LED Drivers and Power Supplies.
- Testing and creating reports of manufactured products like Street Lights, Flood Lights, Down Lights, HI-Bay Lights etc.

Technical Skills:

- **Microcontrollers & Development Boards:** Arduino, ESP32, Raspberry Pi, STM32, PIC.
- **Programming Languages:** Embedded C, Python
- **PCB Design:** Altium Designer, Eagle
- **Communication Protocols:** UART, I2C, SPI, USB, RS-232, USB
- **Wireless Technologies:** Wi-fi, Bluetooth, RF
- **Software:** Arduino IDE, VSCode, Thonny, MPLAB, Platform IO, Proteus
- **CAD:** Autocad,
- **AI Tools:** ChatGPT, Deepseek

Training Details:

- **Training At:** Focus Training Services, Hyderabad.
- **Duration:** 4 Months
- **Training Module:** Embedded Systems

Academic Profile:

Course	Name of College	University/Board	Duration	Percentage
B.Tech. (ECE)	Shrinathji Institute of Technology and Engineering	Rajasthan Technical University, Kota	2012-2016	63.03%
Intermediate	SVG Senior Secondary School	Board of Secondary Education, Rajasthan	2012	62.80%
SSC	LMG High School	Board of Secondary Education, A.P.	2010	77.66%

Personal Details:

Name : Rajendra Vaishanav

Date of Birth : 06-08-1995

Marital Status : Single

Languages known : Hindi, English and Telugu.

Address : H.no: -15-7-258, Begum Bazaar, Hyderabad (T.S.).

Declaration:

I hereby declare that above mentioned information is true to the best of my knowledge and belief.

(Rajendra Vaishanav)