

SURAJ KUMAR

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CAREER OBJECTIVE

To work as a Jr. Quality Engineer in a growth-oriented organization where I can utilize my technical and analytical skills while continuously learning and contributing to organizational success.

EDUCATION

Dr. A.P.J. Abdul Kalam Technical University, Lucknow (UP)

- Bachelor of Technology (B.TECH)
Electronics & Communication Eng..
Percentage: 65.2%
Passing Year: 2023

H M A Inter College, Basti (UP)

- Intermediate
Percentage: 59.2%
Passing Year: 2019
- High School
Percentage: 77.3%
Passing Year: 2017

TECHNICAL SKILLS

- Microsoft Office(PPT, Excel, Word)
- Programming Languages :-** HTML, CSS, Python, C, Embedded C.
- Software & Tools:-** Arduino IDE, STM32CubeIDE, Microchip Studio, Proteus.
- Microcontrollers & Processors:-** PIC, Raspberry Pi Basics, Arduino(UNO, NANO), ESP8266/ESP32, STM32, AVR.
- Communication Protocols:-** UART, SPI, I2C, etc.
- IOT Skills:-** Blynk App, ThingSpeak, MQTT Protocol, HTTP, WiFi & Bluetooth-based IoT Integration.

EXPERIENCE

Jr. Quality Engineer

JSD Electronics India PVT. LTD.
(April-2024 to Till Now)

Roles & Responsibilities

- Install, configure, and validate Firmware.
- troubleshooting of PCBs.
- Resolve hardware, software, network, and printer issues.
- Maintain IT asset inventory and ensure system security updates.
- In-process Inspection of all process
- First Article Inspection and Approval .
- Monitoring and Tracking the Customer complaints and Quality Alerts.
- Samples Inspection and Approval.
- Managing Change Point and ECN related to Production Process.

LEARN SKILLS

- 7QC Tools,
- 5s, SOP, Kaizen, POKA-YOKA
- RCA, Why-Why Method.
- CAPA Documentation.
- ESD (Electro Statics Discharge
- Basic Knowledge of ISO certification.

INTERNSHIP

ADVANCED EMBEDDED SYSTEM

Sofcon India Pvt. Ltd., Noida.
(NOV-2025 to Till Now)

- Practical exposure to AVR, Arduino, STM32, PIC, ESP8266, and communication protocols MQTT & HTTP, TCP.
- Designed and developed projects on automation and IoT applications.
- Worked on AVR, Arduino, sensors, STM32 and IoT-based industrial & College projects.
- Hands-on experience in Embedded C programming and hardware interfacing.

PROJECTS

Air Pollution Monitoring System

- Real-time monitoring of air quality parameters
- Sensor integration with microcontroller (e.g., Arduino UNO)
- Used sensors to detect harmful gases and pollution levels.
- Displayed air quality data on a screen/web page.
- Set alert system for high pollution levels.
- Helped in creating awareness about environmental pollution.
- **Accessories** : Arduino Uno, MQ-135, LCD, Buzzer, Breadboard, etc.

DECLARATION

I do hereby declare that the above information furnished by me is true to the best of my knowledge and belief.

Suraj Kumar

Smart Stick for Blind People

- Developed a smart walking stick to help visually impaired people detect obstacles.
- Used ultrasonic sensor to identify objects in front of the user.
- Provided alert through buzzer or vibration when obstacles are detected.
- Designed the system using Arduino microcontroller.
- Improved safety and independent movement for blind individuals.
- **Accessories** : Arduino, Ultrasonic Sensor, Buzzer, Battery Power Supply.

PERSONAL INFORMATION

- Father's Name: Mr. Ram Nihal
- Mother's Name: Ms. Shanti devi
- Gender: Male
- Date of Birth: 01/05/2001
- Marital Status: Unmarried
- Nationality: Indian

LANGUAGES

Hindi , English

HOBBIES

- Reading Books
- Watching & Playing Cricket