SURESH BINWAL

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SUMMARY

A diligent and persistent Electronics and Communication Engineering student with problem solving skills and programming knowledge, looking for a growth-oriented and challenging career where I can contribute my software knowledge and skills to the organization and further enhance my experience through continuous learning.

SKILLS & TOOLs

Programming Language:-

- Embedded C
- Python fundamentals
- C fundamentals

Design Software:-

- Express PCB
- Eagle PCB design
- Proteus Professional 8.6
- Ultimaker Cura
- Repetier host
- AutoCAD fundamentals
- CNC machine controller
- Grbl software
- 3D printer controller

Software:-

- Python IDE, OpenCV
- Thony
- Arduino IDE
- ROS, ROS2
- Keil µVision IDE(Embedded Software)
- Anaconda-Navigator

Hardware Tools:-

- Arduino Uno, Arduino Nano, Arduino Mega
- IoT (Sensors)
- Raspberry pi, Nvidia Jetson Nano
- 3D Printer machine
- PCB Tracker machine
- Esp8266, Esp32, Lora ESP32
- Components……etc

EDUCATION

Qualification	Institute/School	Board	Year of Passing	CGPA/ Marks %
Bachelors of Technology	Arya institute of Engineering & Technology (Jaipur)	Rajasthan Technical University	2017	76.58
12th	Gramodaya SS SR Sec School (Jaipur)	Rajasthan board of secondary education	2013	70.20
10th	Adarsh Vidhya Niketan Sec School(Jaipur)	Rajasthan board of secondary education	2011	74.17
RSCIT	Vardhman MahaveerOpen University	Vardhman Mahaveer Open University	2013	68

CERTIFICATION

NPTEL (Introduction to Industry 4.0 and Industrial Internet of Things)

PATENT PROJECT

- Spherical quadruped tracker robot. (Design patent).
- Robotics Arm Segment design for Humanoid robot. CBR no: 201319.
- A system & method for heterogeneous, transformative bionic Ant swarm. (Patent filed).
- Track-Mate: A system and method for secure travel. (CBR no.: 22266) - Patent filed.
- Unmanned Surveillance Ground Vehicle. (CBR No.: 228527)- Patent filed.
- Vehicle Maintenance Manager. (Patent).

PROJECTS

- Eva Robot Vehicle Maintenance Manager robot.
- Voice Assisted Robotic Arm Segment Design for Humanoid.
- A mini-computer with Raspberry Pi.
- 3D design Ant robot.
- 3D design Hexapod robot.
- IoT based smart ventilator
- Control home applying application through Global System for Mobile Communication (GSM) modem.
- Controlled Robotic hand using flex sensor, servo motor and Arduino uno.
- Arduino based CNC plotter machine.
- Smart waste management.
- Wireless hand motion controlled robotic gripper arm.
- Foot power generator mobile charging.
- IoT smart mirror with news and temperature etc…

TRAINING

Company:- Rajasthan Rajya Vidyut Prasaran Nigam Limited

Date:- 05/25/16 to 07/25/16

Companies used Power Line Communication to maintain power grid due to past low data rate communication needs. In today world power-line- communication is being used for many applications to control various systems such as street lighting or energy management systems.

EXPERIENCE

ASSISTANT ENGINEER 02/2026 - Till
Manipal University, Jaipur

ROBOTICS ENGINEER 02/2022 – 02/2026
Arya College of Engineering & Information Technology, Jaipur

ROBOTICS ENGINEER 09/2017 - 02/2022
Arya Institute of Engineering & Technology, Jaipur