

# SRUJAN S PUTANI

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## Summary

Test and Service Engineer at Sequoia Healthcare Pvt Ltd with strong expertise in Electronics, Embedded Systems, and IoT-based automation. Skilled in C, Python, Assembly Language, Microcontrollers, and CAD tools with hands-on experience in designing and deploying smart systems, deep learning-based automation, and healthcare device testing. Passionate about leveraging technology for real-world problem solving and continuous learning.

## Experience

### Sequoia Healthcare Pvt Ltd – Test and Service Engineer

Nov 2024 – Present

- Performed testing, calibration, and servicing of biomedical and healthcare devices, ensuring compliance with safety and regulatory standards.
- Assisted in installation and commissioning of medical equipment at client sites, providing hands-on technical support.
- Diagnosed and troubleshooted hardware/software issues, reducing equipment downtime and improving system reliability.
- Prepared detailed technical documentation and service reports, ensuring accurate tracking of issues and resolutions.
- Coordinated with R&D and engineering teams to provide feedback on recurring faults and suggest design improvements.
- Delivered user training and demonstrations for hospital staff on device handling and operational safety.
- Ensured adherence to ISO standards and internal quality procedures, contributing to audit compliance.

## Skills

- **Programming:** C, Python, Assembly Language
- **Embedded Systems:** Arduino, ESP32, NodeMCU, Raspberry Pi
- **Tools & Platforms:** Cadence, Xilinx, Verilog HDL, MATLAB, KiCAD, PSpice
- **Specializations:** IoT, EV Battery Management Systems, Automation, Deep Learning (YOLOv8)
- **Soft Skills:** Problem Solving, Critical Thinking, Time Management, Teamwork, Communication

## Certifications

- Programming Fundamentals using Python – Infosys
- IoT – Infosys

## Projects

- Automatic Irrigation System – Built with NodeMCU and soil moisture sensors for automated crop watering.
- Smart Trolley with Theft Detection – Implemented TensorFlow-based object detection on Raspberry Pi with Blynk App integration.
- EV Battery Management System – Designed with ESP32 to monitor EV battery temperature and humidity.
- Sericulture Automation System – Developed with YOLOv8 deep learning, ESP32, and Arduino Nano for silk farming automation.
- Milk pH Detection Bot – Implemented using Arduino UNO, pH meter, and Deep Forest Algorithm for dairy quality monitoring.

## Education

**Sai Vidya Institute of Technology** – B.E. in Electronics and Communication (2020 – 2024)

**Sarvodaya PU College** – PCMB (2019 – 2020)

**Swamy Vivekananda English High School** – SSLC (2018)

## Languages

English, Kannada, Hindi, Telugu, Marathi