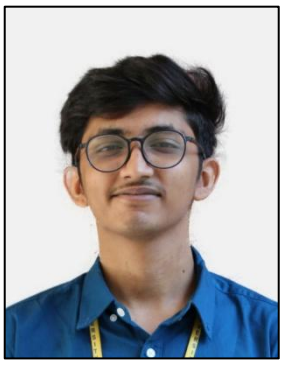
Srinidhi M

|Bachelor of Technology in Electronics and Communication Engineering|
|REVA University| Bengaluru | India |



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CAREER OBJECTIVE

Aspiring Electronics and Communication Engineer with a strong interest in intelligent systems, automation, and space-based applications. Skilled in managing the software side of hardware-focused projects, with a focus on efficient system design and data-driven problem solving. Seeking opportunities to apply my technical expertise, problem-solving abilities, and leadership experience to develop impactful and scalable solutions in aerospace and emerging technologies.

EDUCATION

REVA University, Autonomous — **Bengaluru, IN**
Pursuing: B. Tech in Electronics and Communication: 7th Semester — 2022 - 2026*
CGPA: 7.5 (6th Sem)*

Pre-University Board Karnataka (12th Grade) — **Tumkur, IN**
PUC — 2020 - 2022
The Masters PU College
Percentage: 84.3% (Distinction)

Central Board of Secondary Education (10th Grade) — **Tumkur, IN**
CBSE — Date: April 2020
Maruthi Vidya Kendra, Belagumba
Percentage: 85.6% (Distinction)

SKILLS

Technical skills:
C, C++, Embedded C, Microcontroller programming, IoT, PCB designing using EasyEDA, Machine Learning (ML), Deep Learning (DL), Data Science (NumPy, Pandas, Matplotlib, Seaborn, TensorFlow, PyTorch, OpenCV, YOLO, Label Studio), Python (software development), SQL, Flask, HTML, CSS, JS (web development), Google Cloud Platform, Firebase, GUI technologies (Python), Git/GitHub, App development using Flutter, Figma, Fusion 360 for 3D designing, 3D printing and slicing, Laser cutting.

Soft skills:
Leadership, Team management, Communication, Public speaking, Event coordination, Problem-solving, Decision-making, Adaptability.

LANGUAGES

English (Fluent), Kannada (Native), Hindi (Fluent), Telugu (Conversational)

EXPERIENCE

- **R&D Intern – Central Manufacturing Technology Institute (CMTI), Bengaluru**
  (July 2025 – present)
    - Developing a wireless industrial oven monitoring & control interface using ESP32, Modbus, and Python GUI, enabling real-time thermal cycle automation and data logging for aerospace R&D.
    - Implementing a Non-Intrusive Load Monitoring (NILM) framework on Brazilian poultry feed factory data using advanced preprocessing, feature engineering, and deep learning models for device-level energy disaggregation.
- **Onboard Software Lead – Team AVINYA, CanSat India Competition** (June 2024 – present)

PROJECTS

1. **SkyGuard:** An autonomous aerial drone with a camera for human detection, streaming data to an ESP32 via LoRa for GPS tracking, and a ground-based robot controlled via VR.
2. **CanSat Mission:** Developed onboard software for real-time data acquisition, LoRa telemetry, and descent control using a BLDC-driven reaction wheel. Integrated sensors for pressure, temperature, altitude, and orientation, with data logging to MicroSD. Enabled in-flight imaging via OV2640 camera and ensured system integration for controlled descent and safe recovery.
3. **RAMS (Reva Attendance Monitoring System):** RAMS is a smart attendance solution that automates student tracking using RFID cards and an ESP-based module. It sends real-time updates to faculty and stores data securely, enhancing accountability and administrative efficiency.
4. **Intelligent automated package handling system:** Developed an intelligent automated package handling system using a robotic arm controlled by ESP32 and real-time barcode data via Bluetooth. Enhanced accuracy and efficiency in small-scale logistics with low-cost automation.
5. **Mechsphere:** Designed and built *MechSphere*, a compact spherical robot using ESP32-S3 and OV2640 camera for real-time video monitoring and Bluetooth-based navigation. Enabled safe, remote inspection in confined or hazardous environments with efficient motion control.
6. **Hear Together App:** Designed and developed a mobile application offering hearing assistance using Bluetooth earphones, along with integrated features like a medical chatbot, medicine database access, and QR-based medical report storage to support elderly healthcare management. Led backend integration and UI development using Flutter and Firebase.
7. **RoboReach software -** Developed RoboReach, a robotic arm control software with real-time serial communication, professional GUI, waypoint recording/playback, RoboDK integration, and standalone distribution; implemented advanced threading, error handling, and full system integration for STEM robotics applications.

AWARDS AND ACHIEVEMENTS

- Runners – Srishti project expo conducted by Atria university.
- Winners – CMR project expo.
- Runners – 24hrs Online Remote Robotics hackathon organized by IEEE RAS PES
- Runners – 24hrs offline hackathon conducted by SJC University.
- Track winners – HACCVERSE hackathon conducted by REVA University
- 3rd Runners – CMTI Design and innovation clinic 2025
- Winners – Presidency University Project EXPO 2025
- Winners – Srishti Innovation Exchange 2025 Acharya Institute of Technology
- 1st Runner up – Srishti Innovation Exchange 2025 Acharya Institute of Technology

RESEARCH GRANTS

- Grant of 1,80,000 for “CanSat ISRO Inspace Competition” by REVA University
- Grant of 1,57,000 for “Humanoid & Industrial Robotic Arm” by REVA University
- Grant of 1,18,000 for “RAMS (Reva Attendance monitoring System)” by REVA University