Apoorva SM

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Professional Summary

Innovative and solution-driven engineering student with a good foundation in robotics, automation and programming. Familiar in developing hardware-software integration. A quick learner and adaptable problem-solver, passionate about creating impactful tech-driven solutions.

Education

2022-Present	**Sri Ramakrishna Engineering College** B.E. Robotics and Automation CGPA:9.24(Current)	Coimbatore
2020	**Nazareth Convent High School and Junior College** SSLC|87.16%-ICSE	Ooty
2022	**Nazareth Convent High School and Junior College** HSC|91.3%-ISC	Ooty

Experience

ROBOMIRACLE   **June2024–July2024**
Intern

- Learned and implemented Arduino programming for controlling robotic systems.
- Explored the integration and application of various sensors in automation tasks.

Skills

- **Programming languages:** C, Java, Python*, Arduino* and Ladder Logic.
- **Software:**FUSION360, ROS*, RoboDK, MATLAB*, Automation Studio and Android Studio*.
- **Operating System:** Windows, Linux*.

Elementary proficiency

Projects

- **Underwater robot**   **May2025**

  Winning project of Techgium 8th Edition conducted by LTTS, Developed a basic Underwater Robot capable of underwater navigation for inspection and exploration tasks. Focused on ensuring stability and maneuverability in underwater industrial tank environments and detect cracks.

- **Agrobot**   **Aug2024**

  Developed an agricultural robot for plowing and seed sowing, operated under manual control to assist farmers in fieldwork. Focused on improving efficiency and reducing physical labor in agricultural tasks (Selected for the SIH third round).

- **Smart Stocking System**   **Sept2024**

  Created a Smart Stocking/Restocking System integrating a AGV with line-following capability and a robotic arm to automate pick-and-place operations in stores, reducing manual labor and improving efficiency.

Achievement

- 2nd Runners (Ball Badminton) in the Covai Ties Tournament for the year 2023-2024 held atCIT, Coimbatore.
- Winners of 8thedition of Techgium for the year 2024-2025 held at LTTS main campus, Bangalore.
- Successfully completed 200 days of coding challenge.
- Won First place in the Design Contest held during the National Science Day celebration held 27th of May, 2023.
- Shortlisted for the third round of the Smart India Hackathon for the year 2023-2024 held at SREC.

Leadership & Activities

- Joint Secretary, Robotics and Automation Association.
- Executive Member, ROBO Club.
- Application development Executive Member, MLSA (Microsoft Learn Student Ambassadors).
- Member, The Robotics Society, ASIET.
- **Volunteering:** NSS.
- **Sports:** Vice Caption of Blue House (2024-2025), 3rd in 4x100m relay (IntraMurals, SREC), Runners in Basketball (IntraMurals, SREC), 3rd in 200m (IntraMurals, SREC), Runners in Ball Badminton (Intra Murals, SREC).

Certifications

- **Technical:** Java-50 very easy challenges, Java Basic Programs, Java Basics - Programming Course (Hands-On), Python 3.x - Programming Course (Hands-On), AI For India 2.0, Android Application development, Getting Started with Java: The Fundamentals of Java Programming, Industrial Pneumatic Control, Programming in Core Java, SAWiT Learnathon, C programming (Hands-on).
- **NPTEL:** Social Innovation in Industry4.0, Introduction to Industry4.0 and Industrial Internetof Things.
- **Hands-on Training:** 'PLC' by Prolific Systems & Technologies, 3days training on Industrial Pneumatic Controls, SREC, Coimbatore.
- **Workshop:** Exploring ROS: Basics and modeling, ROS tools mapping and navigation, SREC, Coimbatore.

Personal Information

Date of Birth: 09/05/2005   **Languages Known:** English, Kannada, Tamil.
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