SHYAM PRAKASH SURESH

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CAREER OBJECTIVE

Second-year B.Tech student aspiring to become a Robotics Engineer with a strong focus on Artificial Intelligence. Eager to apply and expand knowledge in robotics, embedded systems, and intelligent automation while continuously learning and transforming innovative ideas into real-world solutions.

EDUCATION

- Bachelor of Technology (B.Tech) – Computer Science and Engineering (AI & Robotics)
- Vellore Institute of Technology (VIT), Chennai
- Duration: 2024 – 2028 (Currently in Second Year)
- CGPA: 9.13

TECHNICAL SKILLS

- **Programming Languages:** C, Java, Python, SQL
- **Core Subjects:** Data Structures & Algorithms, Operating Systems, Computer Architecture & Organization, Microprocessors and Microcontrollers
- **Tools & Technologies:** MySQL, Tinkercad, Arduino IDE

PROJECTS

- **Line Following Robot**
- Designed and implemented an autonomous robot that follows a black line path using IR sensors
- Achieved accurate motion control through real-time motor driver logic
- **Technologies:** Arduino UNO, IR Sensors, Motor Driver, DC Motors, Arduino IDE

- **Fire Detection and Automatic Extinguisher System**
- Developed a camera-based fire detection system using a trained object detection model
- Computed the fire's center point and activated a water jet to extinguish flames at the source
- **Technologies:** Object Detection, Computer Vision, Embedded Systems

STRENGTHS

- Strong problem-solving and analytical skills
- Quick understanding of new concepts and technologies
- Self-motivated, disciplined, and passionate about AI & Robotics
- Ability to work independently as well as in a team

DECLARATION

I hereby declare that the information provided above is true and correct to the best of my knowledge.