SAMARTH N VERNEKAR

Davangere, Karnataka | samarthvernekar05@gmail.com

ROBOTICS &AUTOMATION ENGINEERING STUDENT

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EDUCATION

GM INSTITUTE OF TECHNOLOGY **2022-2026**
Bachelor's of Engineering, Robotics and Automation Davangere, Karnataka

SCIENCE ACADEMY PU COLLEGE **2022**
Pre- University Course - PCMB Davangere, Karnataka

ST MARY'S CONVENT **2020**
Secondary School Davangere, Karnataka

SKILLS

- Python programming
- ROS, ROS2
- Linux and Git
- CAD Modeling
- Embedded systems
- AI integration
- Project Planning & Execution
- Sensor integration and control logic

PROJECTS

VisiBot - AI-Enabled Humanoid Robot for Industrial Tasks (Major project)

Led the development of a biped humanoid robot for warehouse tasks like pallet detection, sorting, and navigation. Integrated computer vision for perception and Arduino-based motion control.

Biped Robot

Built a basic two-legged walking robot using servo motors and Arduino Mega. Focused on gait design and stability as a precursor to the VisiBot

S.A.M.I - Voice controlled AI Assistant

Creating a modular AI assistant in Python using gTTS and HuggingFace, with voice interaction, context memory, and automation features.

CERTIFICATES /

Embedded Systems using IOT - GM Institute of Technology

Gained hands-on experience in designing embedded systems integrated with IoT devices for real-world applications.

OpenCV - OpenCV University

Learned foundational cybersecurity concepts including network scanning, vulnerabilities, and penetration testing techniques.

Line Follower Robot - Hands-on Session - Jothy Institute of Technology

Participated in a practical workshop to build and program a basic line-following robot using sensors and microcontrollers

Introduction to ROS - Youtube

Self-learned ROS basics including topics, services, and packages for robot communication and simulation.

Python for Robotics - Youtube

Studied core Python applications in robotics such as sensor data handling, control logic, and simple automation.