SABARISH S S

Innovative Mechanical Design Enthusiast

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Profile Summary

Motivated and enthusiastic Mechanical and Mechatronics Engineering student with hands-on experience in CAD tools, additive manufacturing, and IoT-based mini projects. Adept at creative problem-solving, project execution, and collaborative teamwork. Passionate about turning innovative ideas into real-world solutions through smart technology. Strong foundation in design thinking, embedded systems, and app prototyping with tools like FlutterFlow and GitHub

Technical Skills

- **CAD Tools: AutoCAD, SolidWorks, Fusion 360 (Beginner)**

- **Programming: Basic Python, C++**

- **App Development: FlutterFlow (No-code App Builder)**

- **Design Tools: Canva**

- **IoT & Embedded Systems: Arduino, Sensors**

- **Languages: English, Tamil, Basic German**

Projects

Smart Yoga Mat – SIH 2024

AI-powered yoga mat designed to provide real-time posture correction, haptic feedback, biometric tracking, and smartwatch connectivity.

Tools & Technologies: **nRF52480 SoC, ESP32, Pressure Sensors, IMU, Biometric Sensor, Haptic Modules, LiPoBattery, Piezoelectric Circuit, FlutterFlow, Bluetooth.**

Tilt Monitoring System – Mini Project

A tilt-detection system that monitors angular displacement and triggers alerts for safety-critical applications in industrial or logistics environments.

Tools & Technologies: **Arduino Uno, MPU6050, Buzzer, IFTTT, Embedded C, Arduino IDE.**

Smart Dustbin – Mini Project

Contactless dustbin that uses sensors to detect human presence and automatically opens the lid, promoting hygiene.

Tools & Technologies: **Arduino Uno, Ultrasonic Sensor, Servo Motor, IR Sensor, Arduino IDE, Battery Supply.**

Publications and Articles

Actively working on publishing an article related to **Additive Manufacturing & Smart Product Design**

Education

B.E. Mechanical and Mechatronics Engineering (AdditiveManufacturing)

Institution: SNS College of Engineering

Duration: 2023 – 2027