S K Shashank

CONTACT

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PROFILE

Driven Electronics & Instrumentation undergrad with hands-on experience in embedded systems and real-time control. Currently developing an ADAS (Advanced Driver-Assistance System) leveraging STM32 RTOS and Raspberry Pi (SAE Level 2) with cloud firmware update. Passionate about pursuing roles in automotive ADAS development, communication-network design, and VLSI/embedded-systems engineering.

EDUCATION

Degree/Certificate	Institute/Board	**Year**
B.Tech in Electronics and Instrumentation	JSS Academy of Technical Education	DEC 2022-Current
Intermediate	Jnanaamrutha PU College	April 2022
Secondary	Nalanda Vidya Niketan	April 2020

PROJECT EXPERIENCE

ECG Monitoring System

- Platform: ESP32, analog front-end, mobile/web interface for real-time vitals display.
- Responsibilities: Signal acquisition, filtering in firmware, Bluetooth-LE data streaming, basic UI design.

Advanced Driver-Assistance System (ADAS)

- (Final-year capstone project – in progress)
- Hardware: STM32H563ZI (with FreeRTOS), Raspberry Pi camera module.

TECHNICAL SKILLS

- Embedded Platforms & IDEs: STM32CubeIDE, Keil µVision
- Programming Languages: C, Python, HTML, CSS
- Real-Time OS & Frameworks: FreeRTOS (in development for final-year project)
- Simulation & Analysis: MATLAB
- Other Tools: ESP32, Raspberry Pi, cloud-based OTA firmware update

INTERESTS

- Automotive Systems & ADAS
- Communication Networks
- Embedded Hardware Design
- Digital Electronics & VLSI
- Microcontrollers and Interfacing
- Real Time Operating Systems (RTOS)
- Communication Protocols (I2C, SPI, UART)
- Low Power Embedded Design