Aspiring Emedded and AI engineer

SUMMARY

Motivated electronics and embedded AI engineer with one year of relevant experience, skilled in designing and developing innovative solutions. Strong foundation in engineering principles and a passion for advancing technology in embedded systems, seeking to leverage expertise in a dynamic environment.

WORK EXPERIENCE

Intern at CSIR-NAL, Bengaluru — Feb 2025 - Mar 2025

Designed a low-velocity wave impact monitoring system for composite materials used in aircraft.

AI Engineer Intern at Dots Automotive, Bengaluru — Jan 2025 - Current

Developing AI models for ADAS to enhance vehicular safety. Implementing machine learning algorithms for real-time collision avoidance. Optimising sensor fusion and computer vision techniques for autonomous systems.

ACADEMIC PROJECTS

AICTE Inventors challenge — May 2024 - Sep 2024

Developed a smart glove that is capable of converting hand and finger movements around any axis to detect and convert the sign into speech based on the Indian sign language.It implements machine learning on embedded hardware to detect and give the desired and correct output using different sensors.

NAL project — Feb 2025 - Mar 2025

Developed a low-cost, efficient system to monitor low-impact collision composite materials used in aircraft. Implemented piezoelectric ceramic sensors to detect the low-velocity impact waves and generate a localisation map for the impact location on the material body. used different Machine learning and mathematical models to detect and get accurate output data.

Tera Scott — Mar 2025 - Current

An AI-powered all-terrain rover that is capable of doing search and reconnaissance operations using different mapping sensors, powered by a Jetson Nano. Using Different AI algorithms, such as SLAM, YOLO, etc, it maps its surroundings in 3d and detects and performs its operations in full automation

EDUCATION

BE in Electronics and Instrumentation Engineering — Nov 2022 - Current

12th from Excellent PU college Kundapura — Jun 2019 - Mar 2021

Graduated with 95.33%

10 from Govt high school kundapura — Jun 2018 - Mar 2019

Graduated with 93.94%

RECOGNITIONS

AICTE Inventors challenge

Got placed 6th place in a national-level electronics competition held at Greater Noida held by STM microelectronics and ARM community.

VIKRAM KHARVI

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Bengaluru

SKILLS

Programming Languages
- c
- C++
- Python
- Matlab

Tools
- MATlab
- STM32
- AutoCAD
- Jetson Nano
- VScode

Hardware
- STM32
- Jetson Nano
- ESP32
- Raspberry Pi

Electronics Design
- Digital design
- Digital signal processing
- Ananlog circuits