MUBENDIRAN K

ECE STUDENT | EXPLORING EMBEDDED SYSTEMS & IOT | PYTHON,C,JAVA | LINUX SCRIPTING

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📍 Chennai

SUMMARY

• Electronics & Embedded Systems Enthusiast with hands-on experience in microcontrollers, sensors, and embedded programming. Proficient in C, C++, Python, Java, and Linux scripting, with knowledge of AWS IoT and cloud technologies.• A quick learner and collaborative team player, skilled in task organization, planning, and efficiency. Passionate about new technologies and challenges, with a strong ability to adapt and build positive professional relationships.

LANGUAGES

English
Advanced
🔵🔵🔵⚪⚪

Tamil
Native
🔵🔵🔵🔵🔵

Hindi
Beginner
🔵⚪⚪⚪⚪

EDUCATION

Bachelor of Engineering - BE, Electronics and Communications Engineering

Rajalakshmi Institute of Technology

📅 01/2023 - 05/2027

Higher secondary , Computer Science

ARLM Matriculation Higher Secondary School CUDDALORE

📅 06/2009 - 05/2023

PROJECTS

SHOP SENSE

📅 03/2024 - 05/2024   📍 Location

Our project introduces a revolutionary RFID-based navigation system tailored for the visually impaired, aiming to redefine the shopping experience. Utilizing RFID tags and tactile paving, this system guides users through stores, providing essential product details through an audio interface. With a user-friendly design, it ensures fast, accurate, and independent shopping for over 3.52 lakh visually impaired individuals in Tamil Nadu, 4.9 million in India, and 40 million globally. The system comprises an microcontroller (with Wi-Fi and Bluetooth capabilities), an RFID module, RFID tags, a speaker, a 3.5mm jack, and tactile paving with two distinct designs. The RFID tags are strategically placed alongside the tactile paving to identify specific product categories such as dairy products.

Blind shoppers can feel the tactile markings and use their RFID module device to access product information and quantities. This innovation not only empowers them with autonomy but also aligns with the goal of creating inclusive shopping environments. Our solution stands as a beacon of independence for the visually impaired, offering a seamless and dignified shopping experience. It's a step towards inclusivity, ensuring that the blind community can enjoy the same convenience and efficiency that sighted shoppers do.

- What was a successful outcome of your work? (e.g. Raised $3,000 for the charity)

Project Name

📅 Date period   📍 Location

Short summary of your work

- What was a successful outcome of your work? (e.g. Raised $3,000 for the charity)