Bangsuka Haldar

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Education

- Bachelors in Technology, Electronics and Communication | SRM Institute of Science and technology, Kattankulathur   8.6 CGPA| (August '23- Present)
- 12th (CBSE) |Apeejay School, Kolkata   85.6% | (April '21 – June '23)
- 10th (CBSE) |Apeejay School, Kolkata   95.6% |(April'19 – May '20)

Academic Projects

- **Ecobin – Smart Dustbin**

A sensor-driven smart dustbin system utilizing Arduino for automated waste classification. Programmed ultrasonic sensors to activate a servo-driven lid upon proximity detection, reducing touchpoints for hygienic waste disposal. Added moisture sensors for real-time categorization of waste, encouraging eco-friendly disposal practices.

- **AwareCane for the blind**

Engineered a smart cane with ultrasonic obstacle detection powered by Arduino, aimed at providing real-time environmental awareness for visually challenged users. Programmed sensor-based haptic feedback to indicate nearby objects, allowing users to navigate safely and independently.

- **Solar Tracker**

Developed an analog solar tracking system using light-dependent resistors (LDRs) and relays to control DC motors, aligning the solar panel toward optimal sunlight. This microcontroller-free design offers efficient solar tracking with improved energy capture throughout the day.

Skills

- Languages – Python, C language, Verilog
- Libraries – Numpy , Pandas

Experience

- **Committee member | SRM Electronics Club**   (August '24-present)

Managed, hosted and organised multiple events and hackathon, prepared agendas, raised funds for the club, delivered speech in conclaves and conference .

Certification

PCB Printed Circuit Board: A complete bundle . Udemy [Certificate]   (January'24 - February'24)

The Complete Python Bootcamp from zero to hero, Edemy [Certificate]   (January'24 – March'24)

Verilog HDL Fundamentals Digital Design and Verification   (August'24 – September'24)