

RASIIKA UIMATE

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EDUCATION

Maharashtra Institute of Technology- World Peace University <i>Bachelor of Technology in Electrical & Computer Engineering</i> Relevant coursework: Power Electronics, Microcontrollers & Applications, Analog/Digital Electronics, Electrical Machines, DSA, DBMS	Sep 2023 - Present
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WORK EXPERIENCES

Data Analyst Internship <i>Ethiqual Pvt Ltd.</i>	Oct 2025 - Present
<ul style="list-style-type: none">Performed market research and data analysis, including open-ended data collection, to uncover trends to support smarter business decisions.Cleaned and validated datasets while contributing to key project insights as a critical team member.	

Research Assistant <i>Subsea Labs at MIT-WPU</i>	Oct 2023 - Mar 2024
<ul style="list-style-type: none">Developed MATLAB models to analyze fluid dynamics in capsule-type tanks, calculating fill times and volume variations.Assisted in formula derivation, data visualization, and research progress meetings under Dr. Spruha Dhavale's supervision.	

Technologies / Skills Used : MATLAB

PROJECTS

Ultrasonic-LiDAR Autonomous Vehicle	Jul 2025 - Dec 2025
<ul style="list-style-type: none">Built a low-cost autonomous vehicle that uses ultrasonic sensors to simulate LiDAR, enabling Level-3 ADAS functions like real-time obstacle detection, safe navigation, and automated decision-making.Created interactive MATLAB tools — radar-style LiDAR view, path simulator, and EV dashboard — to test and optimize control logic before moving to hardware.	

Technologies / Tools Used : MATLAB

IoT-Based Driver Alertness & Car Safety System	Jan 2023
<p>Team Lead</p> <ul style="list-style-type: none">Developed a real-time system for drowsiness detection, heart rate monitoring, and obstacle detection using Arduino with LCD/buzzer alerts.Employed ESP8266 for wireless transmission of cabin temperature/humidity (DHT22) and air quality data (MQ135).	

Technologies / Tools Used : Arduino, ESP8266, DHT22, MQ135

SKILLS

Programming Languages : C, Python, Java

Tools & Platforms : MATLAB, SimuLink, AutoCAD

Databases : MySQL

CERTIFICATIONS

NPTEL C-based VLSI Design	Nov 2025
NPTEL Embedded System Design with ARM	Mar 2025