



Ridima Gangrade

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ABOUT ME

As an adaptive Mechatronics Engineer with industrial experience at UNO MINDA, I am excited to pursue a Master's degree in robotics and automation. I have an immense passion in artificial intelligence and want to use my knowledge, resilience, and diligence to support innovative research in this field. I am looking forward for a platform that values growth in order to expand my knowledge and experience in this intriguing field.

EDUCATION AND TRAINING

Bachelors of Technology

University of Petroleum & Energy Studies [2019 – 2023]

City: Dehradun | Country: India

XII

Chickar International School [2019]

City: Bareilly | Country: India

X

Delhi Public School [2017]

City: Bareilly | Country: India

WORK EXPERIENCE

OFFICER

UNO Minda Ltd [03/07/2023 – Current]

City: Gurugram | Country: India

My responsibility as the Export Assembly Zone Manager at Harley Davidson is to enhance overall performance and optimize operations within the export assembly zone. Using my skills in mechatronics and Value Stream Mapping (VSM), I aim to improve manufacturing line cycle times, increase product quality, and boost efficiency. Additionally, I am actively involved in an improvement team, working with industrial IoT and implementing AI for safety measures and preventive maintenance systems.

SUMMER INTERN

Hero Motocorp Magnetti Marelli [01/05/2022 – 01/07/2022]

City: Gurugram | Country: India

Learned closely about the working of two wheelers, EFI and throttle body. Worked on Simulink to develop various models.

ELECTRONICS INTERN

Schematics Microelectronics [08/2021 – 10/2021]

City: Dehradun | Country: India

Training on IoT and Embedded Systems

DIGITAL SKILLS

Solidworks / Matlab/Simulink / C,C++,Python,Arduino / PROTEUS

PROJECTS

Design and development of drone and launching system (Major Project) Researched drone and launching techniques, selected variables, designed tube launching mechanism, and created reliable drone deployment solution inspired by kamikaze fighting style inspired UAV.

A sustainable system for agriculture sector To design a farmer friendly sustainable system to integrate mechanical and animal power for agriculture sector.

Advanced vehicle health monitoring system(Minor Project) To design a user-friendly system for early detection of malfunctioning to avoid breakdown.To enable this system to reduce environment pollution.To simplify troubleshooting of the complex vehicle.

Plastic waste management Converting dry plastic waste into Hydrocarbon Oil and testing it for pollution by mixing it with diesel. The byproducts used in various sectors.

PUBLICATIONS

[2022]

COST ESTIMATION SYSTEM FOR AGRICULTURAL YIELDS The invention relates to a cost estimation system for agricultural yields comprising a robotic bodywirelessly interlinked with a remote controller with sensors arranged with the body.

20211106161

[2021]

AN AUTOMATIC DISINFECTING SYSTEM FOR AN ENCLOSED AREA AND METHOD THEREOF The invention is a method of automatic disinfecting system for an enclosed area for detecting pathogens, disinfecting through organic solution and displaying the percentage of infection in the area repeating the process.

202111058894

[2021]

SYSTEM OF AUTOMATED FACE MASK & HELMET DETECTION & STERILISATION OF ATM KIOSK Queue individuals pass through an organic disinfectant fog, eliminating viruses. An HD camera detects faces; if masked or helmeted, removal is prompted for security image capture. Door unlocks automatically for access.

202111058864

[2021]

DESIGN PATENT - PATROLLING VEHICLE A patrolling multi utility automobile, which was made with the idea to monitor the pandemic situation.

353788-001 |

[2021]

AUTOMATED PEST CONTROL SYSTEM Automated pest control system with networked devices identifies pests and their location in a farm field. Each device includes a pH sensor for measuring soil pH to estimate fertility.

VOLUNTEERING

Dehradun

Charity for Smiles Dedicated to community service, I actively engage in charitywork for old age homes and orphanages. This experience has provided valuable insights into diverse societal needs, reinforcing my commitment to making a positive impact.

ORGANISATIONAL SKILLS

ASME UPES STUDENT SECTION, Chairperson Maintain the professional standard of the Organization and ensure the involvement of all the members and ensure that a proper working channel which is being followed in the committee.

TRAININGS & COURSES UNDERTAKEN

[2020 - 2023]

Robotics & Self Driving Vehicle

[05/2022 - 07/2022]

Simulink, Mathworks

[02/2022]

Python, Coursera

[04/2021]

KICAD, UDEMY

HOBBIES AND INTERESTS

Photography

Sketching

Travelling