

Himanshu Rewatkar



WORK EXPERIENCE

Acoustic Analysis Engineer

Nov 2023 – Dec 2024

K&A JPN Inc, Honda America, Ohio, USA

- Perform simulations of heavy and medium-duty vehicles to assess ride comfort, structure-borne noise, and dynamic behavior.
- Create and validate CAE methods and processes related to Optimization of 1D/3D CAE models, Automation of CAE workflows.
- Collaborate with NVH and R&D engineers to provide design direction and to achieve targets for function and cost.

Mechanical Engineer

Jul 2022 – Nov 2023

Airseal Technology LLP, Pune, India

- Assisting in planning, organizing, and executing industrial-related projects, such as the construction of centralized vacuum unit, installation of vacuum systems, or maintenance of energy infrastructure.
- Developing and managing budgets for various projects, initiatives, monitoring expenses and financial performance to ensure projects stay within budget.

Graduate Engineer

Sep 2017 – Sep 2018

Krishna Electric Pvt. Ltd., Nagpur, India

- Achieved technical projects plan, design, and development within 6 months, resulting in a 10% reduction in construction costs and a 20% reduction in grid connection costs.
- Executed comprehensive evaluations on diverse PV system components, including both stand-alone and grid-connected inverters, resulting in enhanced product performance by 5%.

Intern

May 2016 – Oct 2016

Laxmi Metal Pressing Works Pvt. Ltd., Aurangabad, India

- Reduced production losses and yield losses by 10% and increase productivity by applying focused quality control kaizens.
- Analyzed & shortlisted top 20% suppliers based on annual spending to organize economical workshops for 10+ categories.
- Collaborated with cross-functional teams to optimize manufacturing processes, reducing cycle time by 15% and improving overall productivity.

PROJECTS & PUBLICATIONS

- Financial Optimization for PV & Wind turbine system with Battery Storage & Feed-in tariff in MATLAB through analysis data for the location of Traverse Michigan & Tucson, Arizona.
- A two-floor building designed by IDA ICE & Optimized with 70% reduction in energy demand of 11500 MW by changing building construction materials to excel Thermal Comfort in the building.
- Environmental efficient Master thesis on "Evaluation of environmental impacts of Fuel cell-based power plants".
- Simulation of an Integrated Organic Rankine Cycle in a Combined Gas and Steam Power Plant, were mathematics of thermodynamic optimization by heat recovery, steam cycles & auxiliary geothermal supply to boost efficiency to 33%.
- Vivek Khond, Vicky R. Gedekar, Himanshu S. Rewatkar, Kunal L. Parate. Design and Fabrication of CNC Lathe Fixture for Square Block Component. In Internation Journal of Advance Research and Innovative Ideas in Education, Volume 4 Issue 4 2017.
- Himanshu S. Rewatkar, Kunal L. Parate. Prototype of the Hovercraft. In Internation Journal of Advance Research and Innovative Ideas in Education, Volume 3 Issue 6.
- Vicky R. Gedekar, Himanshu S. Rewatkar, Kunal L. Parate. Power Generation by Using Suspension System. In International Research Journal of Engineering and Technology (IRJET), Volume 4 Issue 11.

CONTACT

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SKILLS

Programming Languages:

- Python
- SQL Database
- MATLAB
- C#

Tools and software's:

- Power BI, Smartsheet
- Office 365, Microsoft Project
- Lifecycle Assessment
- PV*SOL, PVSyst
- Aspen Plus
- CATIA V5

EDUCATION

- Cumberland University
Master of Science
Major in Engineering Management
Lebanon, TN, USA Jan 2025- Present
- Technische Universität Berlin
Master of Science
Major in Energy Engineering
Berlin, Germany Oct 2018 - Jan 2021
Awards: Scholarship of €15,550 by the German Academic Exchange Service.
- G.H. Rasoni College of Engineering
Bachelor of Engineering
Major in Mechanical Engineering
Nagpur, India Jun 2014 – Jul 2017
- Anjuman Polytechnic Institute
Technical Diploma
Major in Mechanical Engineering
Nagpur, India Apr 2011 - May 2014

OTHER

- Google Project Management Certification.
- ISO 50001: Energy management system Certification.
- Conducted webinar, seminar, and industrial visits as an Academic Officer of the TU Berlin Campus El Gouna Student Union.