

# PRITAM GHOSHAL

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## PROFILE

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Passionate and dedicated individual with strong technical knowledge and expertise in MATLAB, Maple, Python, AutoCAD, Ansys, Abaqus and SolidWorks, seeking an internship for the Spring/Summer of 2024, with a dynamic, growth-oriented organization in areas of product design and development.

## EDUCATION

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**Purdue University, School of Mechanical Engineering** West Lafayette, Indiana  
*Doctor of Philosophy, Mechanical Engineering, GPA 3.95/4.0* August 2022-December 2025  
Concentration: Dynamics and Vibrations, Solid Mechanics

**Indian Institute of Technology (IIT) Kanpur, Department of Mechanical Engineering** Kanpur, India  
*Master of Technology, Mechanical Engineering, GPA 4.0/4.0* August 2020-May 2022  
Concentration: Solid Mechanics

**Jadavpur University, Department of Mechanical Engineering** Kolkata, India  
*Bachelor of Engineering, Mechanical Engineering, GPA 3.62/4.0* August 2016-May 2020

## PROFESSIONAL EXPERIENCE

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**Graduate Research Assistant** West Lafayette, Indiana  
*Purdue University* August 2022-December 2025

- Investigating effects of viscoelasticity and high-frequency excitation on bistable structures with applications in morphing wings in aircrafts, packaging industry and vibration suppression in automobiles.
- Presented award winning papers at the International Conference on Nonlinear Dynamics (NODYCON 2023), Rome and International Design Engineering Technical Conference (IDETC-CIE 2023), Boston.

**Summer Research Intern** Gujarat, India  
*Reliance Industries Limited* May 2019-July 2019

- Analyzed Process Flow Diagrams; applied advanced pinch analysis to optimize heat exchanger network, resulting in significant energy savings and 40% enhancement of throughput of the Alkylation Plant.
- Proposed modifications in cooling water supply pump, compressors and depropanizer system that led to 20% cost reduction.

## LEADERSHIP, HONORS AND EXTRA-CURRICULAR ACTIVITIES

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- Developed and executed budgets, oversaw fundraising initiatives and achieved 25% cost reduction as Treasurer of the American Society of Engineering Education.
- Fostered relationships with universities worldwide, organized awareness workshops and seminars as Secretary of the International Relations Wing at IIT Kanpur; increased participation in foreign exchange programs by 15%.
- Coordinated overall organization of events, led a diverse team of 10 members, assigned tasks, and delegated responsibilities as Secretary of departmental festival committee at Jadavpur University.
- Received two Best Paper Awards for papers on applications of Neural Networks and Machine Learning in Mechanical Engineering.
- Received the Academic Excellence Award from IIT Kanpur for best academic performance.
- Jagadis Bose National Science Talent Scholar (JBNSTS).
- Designed the HVAC system of a three-screen multiplex as part of the National Student Design Competition.