

SUBODH CHANDRA SUBEDI

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EDUCATION

Ph.D. Mechanical Engineering, Univ. of Wisconsin–Madison	Aug 2024
Thesis: Support Structure Optimization for LPBF-based Metal AM	GPA: 3.71
M.S. Mechanical Engineering, Univ. of Wisconsin–Madison	Aug 2020
	GPA: 3.71
M.S. Mechanical Engineering, Univ. of North Dakota	Dec 2017
Thesis: Rolling Contact Fatigue of Solid and Hollow Disks	GPA: 4.0
B.Tech. Mechanical Engineering, MNNIT Allahabad, India	Dec 2012
	GPA: 7.35/10

EXPERIENCE

Structural Analyst Engineer PACCAR Technical Center, WA	Sept 2024 – Present
<ul style="list-style-type: none">• Perform structural and dynamic simulations at component and vehicle levels.• Predict durability under road excitations and validate through FEA/testing.• Drive design optimization and ML/AI integration in simulations.	
Research Assistant University of Wisconsin–Madison	Jan 2019 – Aug 2024
<ul style="list-style-type: none">• Developed deformation-constrained LPBF support optimization techniques.• Delivered computational tools to U.S. Navy and Army.• CAD recovery from topology optimized designs.	
Teaching Assistant University of North Dakota	Aug 2015 – Dec 2017
<ul style="list-style-type: none">• Assisted courses in FEA, Machine Design, and Engineering Ethics.• Mentored FSAE and Senior Design teams.	
Mechanical Engineer Nepal Hydro & Electric Ltd., Nepal	Dec 2012 – Aug 2015
<ul style="list-style-type: none">• Designed and validated hydro-mechanical steel structures.• Managed feasibility studies, contracts, and fabrication.	

SKILLS

- **Programming & Simulation:** MATLAB, Python
- **Modeling & Optimization:** SolidWorks, ANSYS, Creo, Rhino, nTopology, Abaqus, HyperMesh
- **AM Tools & Systems:** Cura, Materialize Magics; EOS M-290, Ultimaker

AWARDS

- NSF Solid Freeform Fabrication Conference Fee Waiver (2021–2023), Austin, TX
- SRGC Presentation Award (2019, 2022), UW–Madison
- 1st Prize, Big Idea Challenge, UND (2017); 2nd Prize, Startup Weekend, ND (2015)

CERTIFICATIONS / TRAININGS

- Morgridge Entrepreneurial Bootcamp, UW–Madison 2023
- Research Mentor Training – CIRTL, Delta Program UW–Madison, 2023