

Varsha Shyam Sundar

+1 (224) 808 1730 · varsha.sundar@gmail.com · varshasundar2028@u.northwestern.edu
linkedin.com/in/varsha-sundar27 · varshasundar.me

EDUCATION

Northwestern University, Evanston, IL

Sept 2024 – June 2028

Bachelor of Science in Manufacturing and Design Engineering (MaDE)

CGPA: 3.437

Activities: Deeva Indian Dance Club, Accessible NU Volunteer

SKILLS

Programming & Tools Python, Java, C, MATLAB, Minitab, SQL, G-Code, JMP, XG-Vision

Design & Analysis SolidWorks, Autodesk Fusion, Ansys, CATIA V5, Framer, Spline

Manufacturing Manual Mill & Lathe, CAM (Autodesk Fusion), Laser Cutting, 3D Printing, CNC, Welding, Plasma Cutting, Grinding, Metal Rolling, Magnetic Drill

EXPERIENCE

Tesla, Inc.

March – Sept 2026

Intern, Manufacturing Engineering – Battery Module (Model 3/Y)

- Ran DOE on adhesive dispense stations to optimize G-code parameters, reducing adhesive volume and cycle time
- Designed and manufactured in SolidWorks access doors for all dispense stations, enabling live maintenance within EHS compliance
- Built and deployed a Python web app across 3 lines × 4 stations, cutting image & logfile extraction time from 30+ min to under 5

The Sound of Time at Burning Man Festival

March – August 2026

Co-Designer and Manufacturing Engineer under Adrian Landon

- Independently designed the mechanical activation system to play Hindustani classical tunes on 7 Himalayan singing bowls
- Fabricated large-scale sculpture in semi knock-down condition from raw metal; built to withstand harsh desert climate

L&T Technology Services Limited (LTTS)

July – Sept 2025

Intern, Embedded Engineering Division

- Automated data extraction using Python + Selenium for circuit breaker devices, replacing manual workflows for a global power management client
- Conducted Life Cycle Assessment (LCA) to assess carbon footprint; achieved PEP certification for client products

ENGINEERING PROJECTS & LEADERSHIP

Northwestern Formula SAE

September 2025 – Present

Suspension Engineer

- Designed and machined 10 front/rear hub caps in SolidWorks, optimizing for fit and rapid wheel swaps
- Trained 5 freshmen on CNC machining in Autodesk Fusion; engineered suspension spacers for assembly alignment

Adjust-a-Hook — Design Thinking and Communication, Northwestern University

April – June 2025

Project Manager and Design Lead under Prof. Michael Saubert

- Led 4-member team to design an accessible bag-hanging system for a disabled student with upper-limb motor impairments
- Owned full development cycle: user research, SolidWorks CAD, fabrication, and validation

QUARK Design Labs at Northwestern University

April 2025 – Present

Executive Board Member

- Serving on the inaugural executive board of NU's first aesthetics and rapid-prototyping design club (Industrial Design & UI/UX)
- Organized 10+ interdisciplinary design workshops on aesthetics and brand building; led industry interactions as Events Lead

AWARDS & COMPETITIONS

The Design Kids — Stanford University Design-athon

May 2026

1st Place (among 12 teams)

- Rapid-prototyped a 3D interactive website enabling students and shop floor workers to learn and refresh shop tool skills online
- Award presented by Alejandro León, CEO of Spline