

# DOROTHY ZHANG

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## EDUCATION

**Northwestern University** | Evanston, IL

**Anticipated: Jun 2028**

*Bachelor of Science in Mechanical Engineering, Business Institutions minor, GPA: 3.5/4.0 (Dean's List)*

- Relevant Coursework: Econ 201 & 202, Engineering Analysis Honors, Design Thinking & Communication, Materials Science, Public Speaking 102
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## EXPERIENCE

**Figure AI** | *Mechanical Design Intern*

**Bay Area, CA** | Jan - Apr 2026

- Collaborated across supply chain, electrical, and mechanical teams at a fast-paced \$39B humanoid robotics startup.
- Led development of 2000N testing system for actuators that increased design iteration and validation speed by 3x.
- Designed Figure 4 finger and hand tester to accelerate hardware validation, supporting 1000+ test cases.

**Procter & Gamble** | *Devices Research & Development Intern*

**Cincinnati, OH** | June - Sept 2025

- Developed image analysis test fixture to characterize scrubbing profiles; leveraged AI segmentation and camera vision.
- Created and validated a 80% predictive model to describe dynamics of mopping, through JMP statistical analysis tools, neural networks, and cross-functional collaboration.
- Conducted 10+ rounds of consumer product research to identify opportunities for enhancing user delight
- Developed prototypes, electronics design, and FEA analysis - co-authored company-wide SLR & patent pending design

**Institute for Student Business Education (ISBE)** | *MBA Member*

**Chicago, IL** | Sept 2024-Jun 2025

- Selected as 1 of ~30 members from a pool of 300+ applicants for Northwestern's premier business cohort
- Consulted for Downtown Evanston and Vibemap on product design and strategy for a student dining rewards app
- Conducted market research (50+ data points/interviews) to inform feature prioritization and user experience decisions
- Collaborated in a 5 person team to develop go-to-market recommendations, presenting insights to client stakeholders

**The Daily Northwestern** | *Student Reporter*

**Chicago, IL** | Sept 2025-Present

- Reported on city policy, student mental health, and campus arts, producing written, photo, and illustration coverage
  - Conducted 25+ interviews with school personnel, mental health advocates, parents, and students to synthesize diverse perspectives into clear, compelling stories
  - Analyzed complex social and policy issues to deliver accurate, audience-focused reporting under tight deadlines
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## LEADERSHIP

**Spring Roll Start-up Founder** | *Design Engineer & Team Lead*

**Chicago, IL** | Sept 2024 – Present

- Designed a spring-loaded oxygen tank regulator that decreased oxygen tank set-up time from 30 seconds, to 4.5 seconds, when used by cardiopulmonary nurse & patient at Lurie's Children Hospital
- Managed client communication, team coordination, and commercialization through patent filing, and industry pitching.
- Built and manufactured the T-handle part according to OSHA regulations and using tools such as lathe and mill

**Curieus** | *Director of Curriculum & Menlo Chapter Lead*

**Bay Area, CA** | Jan 2022 - Jun 2024

- Led curriculum development team of Curieus, a non-profit bringing science to 1000+ under-resourced elementary students through a network of 21 high school chapters across the Bay Area, involving 200+ volunteers
- Created 100+ engaging STEM lessons with hands-on experiments and interactive demos
- Directed Menlo Chapter, coordinating 20+ volunteers to teach at Taft Elementary School through weekly meetings

**Science Technology & Research (STAR)** | *Club Founder & Co-director*

**Bay Area, CA** | Aug 2021 - Jun 2024

- Founded MWEST, which inspires female underclassmen to explore and excel in STEM fields through our workshops
  - Pitched to admin, earned over \$5k in funding, coordinated club meetings, developed lessons, and advertised workshops
  - Organized and led 4 annual workshops for 20+ Menlo middle school girls, featuring industry speakers, alumni networking, and hands-on design projects like light-up Christmas cards and RC cars
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## ADDITIONAL

**Skills:** MS Office, CAD (SolidWorks, NX, CATIA), Python, MATLAB, Manufacturing Tools, Ansys FEA/CFD, JMP

**Language:** Chinese (fluent), Spanish (conversational)

**Honors:** Congressional App Award Honorable Mention (22), Presidential Service Award (20, 21, 22), Natural Robotics Competition Winner (24), Carol Merlone Foundation Scholarship (24), Police Activities League Scholarship Recipient (24)