

OSMAN LIN

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EDUCATION

Purdue University, School of Engineering

West Lafayette, IN

Bachelor of Engineering, Industrial Engineering, GPA 3.5/4.0

May 2029

- Dean's List and Honor Roll

ACADEMIC PROJECTS

Moisturizer Pump Bottle Waste-Reduction Design

July – August 2026

Role

- Built and evaluated three bottle prototypes to improve product extraction and reduce moisturizer waste.
- Recorded and analyzed dispensing results in Microsoft Excel by comparing bottle weights before and after use.
- Validated a silicone-scraper design that left 0.30 oz of moisturizer, 57% less than the sloped-bottom prototype.

PROFESSIONAL EXPERIENCE

New York Institute of Technology

Old Westbury, NY

Biomechanical Research Assistant

June 2026 – August 2026

- Integrated OpenCap motion-capture data with measurements from eight in-shoe pressure sensors to evaluate gait mechanics, weight distribution, and lower-body loading across each phase of recorded walking cycles.
- Used MATLAB to clean and validate experimental data by identifying and removing 60 faulty readings, then synchronized the motion-capture and pressure-sensor systems within 0.055 seconds for accurate comparison.
- Analyzed eight walking cycles by linking peak-pressure measurements with straight-leg positioning and heel-to-arch loading to determine how movement affected force distribution throughout each step.
- Authored a nine-page technical report documenting research methods, data-processing procedures, statistical findings, equipment limitations, and recommendations for improving future biomechanics testing.

Great Neck Public Schools

Great Neck, NY

Summer Camp Counselor

June 2024 – August 2024

- Coordinated activities and transitions with counselors to move campers safely and efficiently.
- Organized equipment and monitored participation to reduce delays and keep daily camp operations on schedule.

LEADERSHIP ACTIVITIES, AFFILIATIONS

Society of Manufacturing Engineers | Member | 2026-Present

- Attend events focused on lean manufacturing, production efficiency, quality control, and industry practices.

Institute of Industrial and Systems Engineers | Member | 2026-Present

- Explore industrial engineering applications in process improvement, data analysis, and systems optimization.

Pi Kappa Alpha Fraternity | Member | 2026- Present

- Coordinate fraternity philanthropy through event logistics, community outreach, and member participation.

DECA | Member | 2022-Prsent

- Qualified for and competed at the DECA state competition for three consecutive years, applying business analysis, problem-solving, and presentation skills.
- Qualified for DECA's state competition three straight years through business analysis and presentations.

RELEVANT SKILLS

- Microsoft Excel, MATLAB, Data Analysis, Statistical Analysis, Process Improvement, Quality Control, Prototype Testing, Product Design, Technical Documentation, Project Coordination, and Team Leadership