INOO JO

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EDUCATION

The University of Texas at Austin, Cockrell School of Engineering – Austin, Texas
Bachelor of Science, Mechanical Engineering Honors **Est. Graduation May 2026**

- GPA: 3.8/4.0
- Relevant coursework: Thermodynamics, Dynamics, Solids, Materials, Fluid Mechanics, Machine Elements, Mechatronics, Heat Transfer, Dynamic Systems and Controls, Nanotech for Sustainable Engineering

SKILLS

- **Software:** SolidWorks, Autodesk Inventor, Fusion 360, AutoCAD, Matlab, Python, Java
- **Manufacturing:** Mill/Lathe, 3D printing, Laser cutting, CNC, Woodshop tools (Table saw, Bandsaw, Router)
- **Other:** FEA, Machine design, Prototyping, System Integration

EXPERIENCE

Texas Inventionworks (Engineering Makerspace) – Austin, Texas **August 2023 – Present**
Student Technician, Woodshop Lead

- Led a team of 12 student staff to improve workshop operations, increasing tool accessibility and organization.
- Trained 100+ students in 3D printing, laser cutting, CNC, and other manufacturing techniques, enhancing their ability to create manufacturable designs for their projects.
- Designed and constructed an Omniwall for tool organization, improving workshop efficiency by 25%.
- Provided technical advice to senior design projects, helping teams complete 10+ successful builds.

Viscoelastic Materials Laboratory, Yang Research Group – Austin, Texas **December 2022 – August 2023**
Research Assistant

- Conducted experimental research on laser-induced inertial cavitation in hydrogels and biological materials, exploring the effects on material properties and potential applications in biomedical engineering.
- Utilized advanced machine learning and data-driven techniques to analyze full-field deformation measurements, improving data analysis efficiency.
- Supported the team in modeling nonlinear material behavior and failure mechanisms under a range of strain rates.

Energy Nanomaterials Laboratory, Yu Research Group – Austin, Texas **August 2023 – August 2024**
Research Assistant

- Experimented with hydrogels for Atmospheric Water Harvesting (AWH), testing and analyzing their performance in water desalination and purification.
- Conducted sustainability assessments for various water harvesting technologies and contributed to publishing results on nanostructured organic materials for solar-powered water purification.

Texas Battlebots
Team Lead, Mechanical Design **March 2024**

- Designed and built a 3lb beetle-weight combat robot, utilizing iterative design and advanced manufacturing techniques to optimize strength, weight, and functionality.
- The robot demonstrated exceptional resilience to opposing attacks, placing 2nd out of 15 teams.

ME 338 RC Car **November 2023**

- Designed and built an RC car with a custom steering mechanism, optimized for control and performance within a $50 budget.
- Utilized 3D printing (carbon fiber reinforced) for frame supports, ensuring strength while minimizing weight.
- Demonstrating smooth and responsive steering, placing 1st in the competition.

MEMBERSHIPS & EXTRACURRICULARS

American Society of Mechanical Engineers – Member **August 2022 – Present**
UT Dell Scholars **August 2022 – Present**
UT Math Club – Treasurer **August 2023 – Present**