Benjamin Lho

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Seeking: Internship Summer 2026 in *product design*, *thermal/fluid systems*, *finite element analysis, and simulation/modeling*.

Academics

University of Texas (Expected grad: Spring 2027) (2023-present)
Bachelor of Mechanical Engineering GPA: 3.9

Experience

Engineering Intern (Ultra Clean Technologies) (Summer 2025)

- ➔ Six Sigma process improvement (root-cause analysis, waste reduction)
- ➔ Time studies for task duration, cycle time, and standard work analysis
- ➔ Labor optimization through worker-task modeling and workflow balancing

Research Assistant (University of Texas) (Fall 2024)

- ➔ Collaborating with Dr. Donglei Fan on water purification research using hydroelectrolysis.
- ➔ Testing the efficiency of different electrodes in removing lead and mercury from water.
- ➔ Improving device design to optimize electrode suspension and water agitation for better purification.

Research Assistant (Baylor University) (Summer 2024)

- ➔ 500% increase in microbubble output with my prototype, increasing efficiency of microplastic removal through improved design and material selection.
- ➔ Created MATLAB convex hull algorithms and linear regression models to detect microplastics in sand
- ➔ Engineered a rover equipped with a microplastic-detection system, successfully collecting plastics using a homemade vacuum system.

Engineering Intern (Marathon Norco Engineering) (Summer 2022)

- ➔ Saved the company $10,000 by designing an actuator for a tensile lock mechanism to meet aerospace safety standards
- ➔ Created and 3D-printed prototypes, increasing project efficiency by testing rapid iterations.
- ➔ Shadowed engineers to gain a better understanding of aerospace applications and product testing.

Skills

Developed a Chatbot using Python, HTML, and JavaScript scripts to integrate third-party APIs from various applications, such as:
GenAI, Slack, Telegram, Zoom, Google Suite, Discord, Canvas

Created MATLAB scripts for data analysis using numerical methods such as:
Numerical Integration (Runge-Kutta 4th, Newton-Euler)
Parametric Curve Fitting
Solving Differential Equations

Leadership

Treasurer (Korean American Student Association) (2025-current)

Order of the Arrow (Scouting Honor Society) (2019-present)

Eagle Scout; Boy Scouts of America (2016-present)

- ➔ Led a community project that involved paving a road and lining different gardens with paving stones for the World Hunger Farms, benefiting dozens of visitors a day. I chose the World Hunger Farms because of their work in growing and spreading information about sustainable and environmentally friendly crops.

Relevant Coursework

Thermodynamics, Fluids, Mechanics of Materials, MATLAB, Differential Equations, Engineering Mechanics, Robot Mechanism Design, Machine Elements