

# Ming Le

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## SUMMARY

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Current undergraduate student specializing in mechanical engineering, hands-on in structural design and analysis through academic projects. Proficient in thermofluids and combustion principles, demonstrating a strong passion for space exploration. Recognized for excellent communication and teamwork skills, looking to leverage academic knowledge and practical experience during this internship opportunity.

## EDUCATION

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### Bachelor of Science in Mechanical Engineering

University of Alabama in Huntsville    GPA: 3.5

2027

Huntsville, AL

*Coursework: Thermodynamics, Fluid Dynamics, Structural Analysis, CAD Design*

## TECHNICAL SKILLS

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- **Design Software:** AutoCAD, SolidWorks, CATIA
- **Programming Languages:** Python, MATLAB, C++
- **Simulation Tools:** ANSYS, COMSOL Multiphysics, OpenFOAM
- **Data Analysis Tools:** MATLAB, Excel, R
- **Testing Methodologies:** Experimental Testing, Simulation Validation, Statistical Analysis
- **Documentation Standards:** ASME Y14.5, ISO 9001, IEEE Standards
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Engineering Principles:** Fluid Dynamics, Thermodynamics, Statics
- **Presentation Software:** PowerPoint, Prezi, Google Slides
- **Research Databases:** IEEE Xplore, ScienceDirect, SpringerLink

## SKILLS

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- CAD Software
- Fluid Dynamics
- Data Analysis
- Research Methodologies
- MATLAB
- Structural Analysis
- Presentation Skills
- Prototyping
- Python
- Finite Element Analysis
- Team Collaboration
- Simulation Techniques
- Thermodynamics
- Technical Writing
- Project Management
- Experimentation

## EXPERIENCE

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### Structural Engineering Developer

January 2026 - Present

University Project

Huntsville, AL

Focused on developing innovative structural components using advanced CAD software. Managed collaboration efforts with peers and faculty, ensuring that structural integrity was achieved while maintaining material efficiency.

- Developed a prototype for a lightweight structural component using CAD software, emphasizing material efficiency.
- Conducted finite element analysis (FEA) to assess performance under various loads, enhancing reliability.
- Collaborated with peers to present findings at a university engineering fair, gaining valuable feedback.
- Utilized MATLAB for data processing and simulation of thermal properties in materials.
- Engaged in weekly project meetings, addressing challenges and proposing innovative solutions.
- Received positive evaluations from faculty concerning presentation and documentation quality.

### Thermofluids Research Assistant

September 2025 - December 2025

University Project

Huntsville, AL

Assisted in research focused on thermal management systems, directly contributing to aerospace applications. Engaged in comprehensive data analysis to optimize system reliability and efficiency.

- Contributed to the design of experimental setups for fluid dynamics investigations.
- Analyzed data from experiments, resulting in improved thermal management system designs.
- Tested prototypes and suggested modifications based on performance assessments.
- Worked collaboratively to prepare research papers, targeting publication in conferences.
- Enhanced problem-solving abilities by resolving issues related to experimental methods.
- Presented research findings at a university symposium, achieving peer recognition.

### Spacecraft Systems Developer

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March 2026

## Hackathon Project

Huntsville, AL

Participated in a fast-paced hackathon focusing on propulsion systems for small satellites. Collaborated effectively within a team environment under tight deadlines to create an innovative design recognized by judges.

- Designed a conceptual model for a propulsion system, earning recognition for 'Best Innovation.'
- Produced a working prototype with available resources, showcasing theoretical application.
- Used Python for data analysis, highlighting operational efficiencies in propulsion designs.
- Documented the rapid development process, reflecting on challenges faced and abroad solutions.
- Demonstrated effective time management and creativity under pressure in a competitive setting.
- Engaged with a panel of judges, successfully presenting the concept and garnering interest.

## LEADERSHIP & AWARDS

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- Dean's List, University of Alabama in Huntsville, 2025, 2026
- Best Innovation Award, Huntsville Space Hackathon, March 2026

## CERTIFICATIONS

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- Introduction to Thermodynamics 📅 2026
- Fundamentals of Fluid Mechanics 📅 2026

## PROFESSIONAL AFFILIATIONS

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- Member, Engineering Student Association, 2025 – Present
- Volunteer, Local Science Fair Organizer, 2025 – Present

## LANGUAGES

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- English (Native) • Chinese (Intermediate)

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST