

# Ming Le

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123 Space Lane, Huntsville, AL 35801

## SUMMARY

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

### 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

- **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

- 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

### Structural Engineering Developer

University Project

January 2026 - Present

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

University Project

September 2025 - December 2025

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

### Hackathon Project

March 2026

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