



# Ming Le

## Structural & Mechanical Engineering Intern

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### 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

### 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.

### STRENGTHS

- 💡 **Problem Solving**  
Consistently enhanced project outcomes through collaborative problem-solving, actively addressing challenges that arose.
- 👥 **Collaboration**  
Fostered strong team dynamics in multiple projects, resulting in successful presentations and learning experiences.
- 📄 **Technical Documentation**  
Produced thorough and clear technical reports and presentations recognized by faculty for their quality and effectiveness.
- 🔄 **Adaptability**  
Adapted quickly to changing project demands and timelines, ensuring successful completion under pressure.
- 📊 **Analytical Skills**  
Applied analytical techniques to interpret complex data sets, impacting project direction meaningfully.

### SKILLS

CAD Software MATLAB Python

Thermodynamics Fluid Dynamics

Structural Analysis

Finite Element Analysis

Technical Writing Data Analysis

Presentation Skills

Team Collaboration

Project Management

Research Methodologies

Prototyping Simulation Techniques

Experimentation

## LANGUAGES

English Native

Chinese Intermediate

## MY CAREER



● Structural Engineering  
Developer at University Project  
(6 Months)

● Thermofluids Research  
Assistant at University Project (3  
Months)

- 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

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

### CERTIFICATIONS

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

### PROFESSIONAL AFFILIATIONS

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

### ADDITIONAL INFORMATION

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

### REFERENCES

AVAILABLE ON REQUEST