

# LEEJUN KIM

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## EDUCATION

### University of Illinois at Urbana-Champaign

*Bachelor of Science in Materials Science and Engineering*  
*Minor in the Hoeft Technology and Management Program*

*May 2024*

*GPA 3.50/4.00*

*Class XXVIII*

## PROFESSIONAL EXPERIENCE

### Tissue Biomechanics Laboratory

*Undergraduate Research Assistant*

**Champaign, IL**

*October 2021-Present*

- Created a physical knee simulator with biomechanically realistic passive components replicating knee ligament injuries
- Compiled data from experimental tests in stress measurements of synthetic fibers varying in force, tension, and compression
- Experimented with synthetic fibers and modeled the knee function using Fusion360 providing consistent training for medical students as well as improve care for knee injury patients

## PROJECTS

### Backpack Appliance

*Jan 2021-May 2021*

- Managed a team of 3 people to create an electro-mechanical consumer product utilizing Fusion360
- Manufactured a design that allows for better support and padding when carrying around a backpack with electronics

### Styrofoam Glider

*Oct 2020-Dec 2020*

- Constructed a stable glider out of materials such as styrofoam and wooden dowels that would maximize distance and time
- Presented a report to a panel of professors on campus as well as fellow peers to summarize our process and design methods
- Competed against 25 teams from the University of Illinois and placed in 5<sup>th</sup> overall

### Paper Towel Rocket

*Aug 2020-Oct 2020*

- Coordinated with a partner to design a rocket that would be successful in achieving the highest altitude as well as protecting a raw egg during its flight
- Participated in a competition and presented a video of our accomplishments as well as the design process to a panel of professors and students on campus

## LEADERSHIP AND ACTIVITIES

### Theta Tau Professional Engineering Fraternity

*President*

**Champaign, IL**

*Feb 2021-Present*

- Lead weekly general meetings for an organization of 100 members as well as weekly meetings with a 20-member executive board
- Participate in weekly professional, philanthropic, and social events to develop my engineering knowledge and networking skills
- Selected as top 10% of over 200 applicants after rigorous interview process
- Created and launched fundraisers that raised over \$180 to support the GROW mental health movement in Illinois
- Co-led a mental health forum for 40 members to educate on the technological advancements, the prison system, social issues, and economic impacts that have stemmed from COVID-19

### Material Advantage

*General Member*

**Champaign, IL**

*Aug 2021-Present*

- Attended monthly general meetings to further advance my knowledge of the materials science and engineering program

### International Korean Student Association

*Vice President*

**Champaign, IL**

*Jan 2022-Present*

- Collaborate with the president to plan professional and philanthropic events for over 100 members
- Communicate with active members as well as UIUC professors to speak about their successes in their career growth

## TECHNICAL SKILLS

**Secondary language:** Korean (Advanced), Japanese (Intermediate)

**Softwares:** Fusion360, Creo Parametric, SketchUp, Python, ImageJ, Microsoft Office, Excel, MatLab, LTSpice