

Jinwoo Kim

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EDUCATION

The University of Texas at Austin

Bachelor of Science, Mechanical Engineering
Technical Track: Advanced Materials Engineering
Minor: Business Foundations

Graduating May 2022

GPA: 3.59/4.00

RELEVANT EXPERIENCE

Amazon – Area Maintenance Manager Intern; Patterson, CA

Summer 2021

- Improved high velocity pack lines by troubleshooting Wexxar box erector robots to decrease faults by 44%, increasing units produced before a jam by 123%
- Created a Wiki page containing 6 standardized trainings for 3 different departments and integrated within the 5 Amazon Robotics Non-Sortable fulfillment centers
- Managed facilities/reliability and maintenance engineering (RME) department during the weekend and front-half day shifts in the month of July, representing OAK3 site during regional severity 2 (SEV 2) events

Koo Research Group – Undergraduate Research Assistant; Austin, Texas

Fall 2021 - Present

- Modeled material response of NASA Ames PICA-Flex ablator using 1-D FIAT response code
- Assisted in the development of a new low-density flexible ablator for hypersonic space applications
- Reviewed state-of-the-art material response modeling codes to identify the most validated method to implement

LG Electronics – Calibration Assistant; Fort Worth, TX

Summer 2018, 2019

- Designed new routes to transport over 400 radio-frequency and power supplies without disruption of workflow, finishing the task 1 month earlier than anticipated
- Launched a new system to reorganize over 500 jigs and streamlined equipment inventory according to function
- Collaborated with the engineering team and calibration team by translating information from Korean to English

ORGANIZATIONS

Pi Tau Sigma, Texas Kappa Chapter (Mech-E Honor Society) – President

Fall 2019 – Fall 2021

- Revived the Texas Kappa Chapter and created a strong foundation by rewriting a new chapter constitution and rebuilding with more than 50 members to promote departmental leadership and standards
- Restructured the executive board and delegated appropriate tasks by streamlining information for efficient workflow
- Maintained and showcased the Foster Engines to teach mechanical engineering to over 500 people during Girl Day

American Society of Mechanical Engineers – Active Member

Fall 2018 - Present

- Awarded the ASME Distinguished Outreach Member in 2019-2020 for top 10 volunteering hours

Longhorn Powerlifting – 74kg Equipped Lifter

Spring 2019 - Present

- Mentored a new member to establish a culture of high standards and constant improvements in and out of the gym
- Volunteered at Special Olympics, high school powerlifting meets, and Longhorn Run to promote personal health

SKILLS

Software: SolidWorks, Finite Element Analysis, Autodesk Inventor, Fusion 360: Generative Design, Microsoft Excel, Microsoft PowerPoint, Microsoft Word, NI Multisim, Granta EduPack Material Selection

Programming: MATLAB, Python, Java

Languages: Fluent in Korean

Certifications: Machine Shop, Amazon Diversity Equity and Inclusive Leadership Certificate