

# Kevin Koh

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## EDUCATION

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**The University of Texas at Austin** — Austin, TX Dec 2024  
*Bachelor of Science in Chemical Engineering*  
Member: American Institute of Chemical Engineers, Korean Engineering Student Association

Coursework: Transport Phenomena, Thermodynamics, Material Science, Polymers, Operation Units, Process Safety, Reactor Design, Optimization, Separation Processes and Mass Transfer

## EXPERIENCE

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**Komicrosystems Inc.** — Jinju, South Korea May 2023 - July 2023  
*Project Assistant*

- Utilized AI and sensor technologies, including ultrasonic sensors and parallel CNNs, to create an autonomous reactor control system for chemical processes.
- Aimed to enhance efficiency, reduce waste, and improve safety by continuously monitoring and optimizing key parameters in real-time

**University of Texas at Austin** — Austin, TX Jan 2023 - May 2023  
*Grader for Transport Phenomena Course*

- Graded assignments and exams, provided feedback to students, and maintained accurate records of grades.
- Collaborated with the professor and teaching assistants to ensure consistent grading standards were upheld.

**University of Texas at Austin** — Austin, TX Sept 2021 - Dec 2021  
*Learners Assistant for Physics Mechanics Lab*

- Assist, mentor, and provide educational material, and lesson plans to students in groups and on an individual basis on an intro physics mechanics laboratory course

**WooHyun Ship Design Tech Co. Internship** — Jinju, South Korea May 2021 - Aug 2021  
*Engineering Intern*

- Utilized a program that classifies paint defects on ships to automatically analyze the coordinates on ships
- Arranged coordinates for areas of defects and sent the data to various ship/craft companies

## ACTIVITIES & LEADERSHIP

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**Dr. Wang Lab at UT Austin** — Austin, TX  
*Undergraduate Research Assistant*

- Developed and implemented a machine learning algorithm to predict defect formation energy in 2D materials
- Employed advanced graph neural network models to predict material properties without generating defected structures, reducing computational load and improving prediction accuracy

**UT AiChE's Chem-E Car Competition** — Austin, TX  
*Team Member*

- Designed and constructed a car powered by a chemical energy source that safely ran a specific distance
- Collaborated with a team of UT students to develop and implement a Zinc ion battery and Iodine Clock reaction

**Dr. Ren Lab at UT Austin** — Austin, TX  
*Undergraduate Research Assistant*

- Worked as an undergraduate research assistant for electrochemistry and material science
- Fabrication of Ultramicroelectrodes using the coating material
- Used cyclic voltammetry to investigate the reduction and oxidation process of various molecular species

**Computer For the Blind (NPO)** — Austin, TX Aug 2019 – Feb 2020  
Delivered, assembled, fixed, and packaged donated computers for visually impaired people

## Qualification

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**Skills:** MATLAB, Aspen, Java(ocajp se8), Thermodynamics

**Languages:** English, Korean, Japanese