

# NHI HOANG

**Email:** Nhihoang216@gmail.com | **Phone:** (858) 214-4448 | **LinkedIn:** www.linkedin.com/in/nhihoangchee/

## SUMMARY

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- Junior chemical engineering student with experience in research, process simulation, and data analysis.
- Passed FE Exam on March 2023
- Open to summer relocation

## EDUCATION

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**University of Houston**, B.S in *Chemical Engineering*

**Aug 2021 – May 2024**

Minor: Chemistry, Mathematics

GPA: 4.0

Honor: *Most Outstanding Chemical Engineering Junior of 2022-2023*

## SKILLS

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**Data Collection & Analysis:** used Linux to collect data from high-performance computers, analyzing data using Excel and Python, evaluating results by comparing with data from research papers.

**Data Visualization:** design visually attractive and interactive presentations using advanced Excel charts, PowerPoint hyperlinks and animations.

**Diagram Analysis:** able to read, understand basic Piping & Instrumentation Diagrams and Process Flow Diagrams

**Process Simulation:** design processes in energy industries such as Toluene Hydrodealkylation by using Aspen Plus

## EXPERIENCE

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**Mathematics Tutor** – *CASA Tutoring Center*

**Oct 2022 - Present**

*University of Houston, Houston, Texas*

- Tutoring college students in College Algebra, Finite Math, Pre-Calculus, Calculus, Statistics.
- Assisting 5+ students daily for better understanding and utilization of math concepts at all levels.
- Improving student performance on quizzes and exams by over 50% after each session.

**Undergraduate Research Assistant** – *Dr. Grabow's Lab*

**Jan 2022 – Oct 2022**

*University of Houston, Houston, Texas*

- Utilizing Vienna Ab-initio Simulation Package to study the behavior of CO and NO oxidation reactions on heterogeneous catalysis (Cu, PdCu alloy) with density functional theory.
- Performing data processing and data visualization in Excel to calculate the activation energies of CO and NO oxidation reactions.
- Conducting Linux Shell scripts for automating file creation which reduced data input time by 80%
- Submitted more than 600 jobs to high performance computers.

**Catalyzing eXploration of Chemistry (CXC) Mentor**

**Jan 2022 – May 2022**

*Center for Integrated Catalysis, remotely*

- Mentored a group of 5 high school students in performing bioplastic synthesis at home.
- Presented lectures about sustainable plastics to raise students' awareness of environmental issues.
- Assisted in the students' poster that won 2<sup>nd</sup> place in the final presentation competition.

**R&D Intern**

**Mar 2021 – Jun 2021**

*Vidan Fertilizer Company, Ho Chi Minh City, Vietnam*

- Researched the roles of Si elements on common agricultural plants for new product development.
- Conducted daily 2-3 experiments examine the concentration of essential nutrients in new batches.

## AWARDS AND EXTRACURRICULAR ACTIVITIES

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**Awards:** Fleischer Scholarship, Cullen College of Engineering Scholarship, Premila Hariprasad Vyas Educational Trust Scholarship, Summer & Provost's Undergraduate Research Scholarship, Worley Foundation Scholarship, Transfer Excellence Scholarship

**Extracurricular Activities:** Member of *Society of Women Engineers*, Volunteer Baker at *Bake A Wish*, Volunteer at *Houston Food Bank*