

Hao Chen

Add: 3869 Miramar St, #3419, La Jolla CA 92092

Tel: (858) 370 2497 Email: hac047@ucsd.edu haochinash@gmail.com

EDUCATION

| | |
|---|----------------------------|
| University of California, San Diego (UCSD) | 09/2023-06/2024 (Expected) |
| Master of Science, Structural Engineering (Structural Analysis, Advance Composite) | San Diego, CA |
| Rensselaer Polytechnic Institute (RPI) | 08/2019-05/2023 |
| Bachelor of Science, Civil Engineering (Structural Engineering) | Troy, NY |
| Relevant Courses: Advance Structural Analysis, Advance Structural Steel, Structural Dynamics, Additive Manufacturing, Construction management, Concrete Design, Geotechnical Engineering, Beginning Programming in Civil and Environmental Engineering | |

WORK EXPERIENCE

| | |
|--|-------------------------|
| Southeastern University School of Engineering | 04/2022-09/2022 |
| Research Assistant for Professor Zhiqiang Zhang | Nanjing, Jiangsu, China |
| <ul style="list-style-type: none">• Participated in the analysis of seismic structural design principles for high-rise buildings• Reviewed the role of TLCD in the seismic resistance of high-rise buildings and its application prospects• Assisted in experimentally verifying the existing models for TLCD and proposed further research | |
| Tianjin Yitiancheng Architectural Engineering Design Co., Ltd | 09/2021-12/2021 |
| Structural Engineering Assistant, Engineering Design Department | Tianjing, China |
| <ul style="list-style-type: none">• Involved in structural analysis of a high school's teaching laboratory building• Assisted in structural design of office buildings and gas stations in highway rest stops• Verified concrete and steel design of beams in different structures across projects• Altered design graphs in AutoCAD based on customer requirements | |
| Shanghai Zhongzhi Chemical Technology Co., Ltd | 05/2020-08/2020 |
| Laboratory Assistant, Research & Development Department | Shanghai, China |
| <ul style="list-style-type: none">• Conducted chemical tests of gelcoat and performed qualitative or quantitative analyses for new gelcoat formulas• Prepared chemical solutions, following standardized formulas, or creating experimental formulas | |

RESEARCH & PROJECTS

| | |
|---|-----------------|
| Steel Bridge Design Review | 10/2022-05/2023 |
| Group Project, AISC Student Steel Bridge Competition | |
| <ul style="list-style-type: none">• Completed site analysis and designed a steel bridge structure with easy construction capabilities• Utilized SAP2000 to analyze load combinations, deflections, force, and moments• Constructed 3D models, shop drawings, fabricated the bridge and participated in the competition | |
| Multi-Use Building Design in Latham, NY | 01/2023-05/2023 |
| Group Project, Capstone Design | |
| <ul style="list-style-type: none">• Completed site analysis and designed a three story building structure with provided site conditions• Designed structural aspects of the project, beams, columns and girders• Developed SAP and 3D rendering models for weekly client meetings, showcasing the project's progress and design concepts. | |
| Structural Report for a Sculpture | 08/2022 |
| Group Course Project, CIVL 4020 Course | |
| <ul style="list-style-type: none">• Analyzed a potential structure method and performance of the 1977 sculpture Suspended by Menashe Kadishman• Investigated material properties of the weathering steels and rationalized this choice with calculations• Performed detailed model analysis with Simscales to calculate different forces | |

PROFESSIONAL SKILLS

-
- Language: Fluent in English, Native in Chinese
 - Design Software: SAP2000, SolidWorks, Simscales, Autodesk Software (including AutoCAD, Autodesk Fusion 360)
 - Programming: C, JAVA, Python