

Hyungjun Doh

Contact Information

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Bachelor of Science in Computer Engineering
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Current Address

271 South River Road
West Lafayette, IN 47906

EDUCATION

Elmore Family School of Electrical and Computer Engineering

Senior, Purdue University

August 2018 - Present

West Lafayette, Indiana

- Overall GPA: 3.64/4.0

RESEARCH PROJECTS

3D Hand and Object Interaction with Human-Computer Interaction

Convergence Design Lab

January 2023 – Present

Purdue University, West Lafayette

- Participated in the development of a Human-Computer Interaction project
- Performed 3D reconstructions of Hand and Object meshes, focusing on capturing spatial information
- Computed pose estimation of objects and determined their positions/orientations using computational methods

Summer Undergraduate Research Fellowship (SURF)

Engineering Undergraduate Research Office (EURO), Convergence Design Lab

May 2023 – August 2023

Purdue University, West Lafayette

- Conducted research on animation generation from text and human pose by combining two diffusion models
- Authored a technical paper summarizing the findings from the SURF research
- Presented a poster at the SURF Symposium, effectively conveying the key insights and contributions of the research

Vertically Integrated Projects

VIP Smart Cities Research Team

August 2022 – May 2023

Purdue University, West Lafayette

- Successfully implemented a semantic segmentation neural network to detect cracks and scratches
- Constructed a Neural Network for Image Classification, demonstrating proficiency in deep learning techniques
- Generated 3D data sets by utilizing the Houdini program

OTHER ENGINEERING EXPERIENCE

Package Manager Application Programming Interface (API)

Software Engineering

January 2023 – May 2023

Purdue University, West Lafayette

- Developed a Package Manager API using TypeScript and Firebase
- Implemented 17 features, totaling 2029 lines of code, to enhance functionality and user experience
- Set up Continuous Integration (CI) and Continuous Delivery (CD) pipelines for efficient development workflows
- Conducted security analysis to ensure API robustness and protect against vulnerabilities

LEADERSHIP EXPERIENCE

Korean Christian Fellowship

Vice President

August 2018 – Present

May 2022 – Present

- Coordinated and publicized events after planning with board members
- Looked out for the well-being of other members of the leadership by contacting them on a regular basis

Korean-American Scientists and Engineers Association Young Generation

President, KSEA YG Purdue

May 2021 – May 2022

- Managed organization as a president by communicating with members
- Coordinated multiple academic events for science and engineering students by inviting professors and alumni

HONORS AND AWARDS

- Howard J. Heim Memorial Scholarship: ECE Great Work Award
- Dean's List and Semester Honors in Spring 2023
- Dean's List and Semester Honors in Fall 2022
- Dean's List and Semester Honors in Spring 2022
- Dean's List and Semester Honors in Fall 2021
- Dean's List and Semester Honors in Spring 2019

August 2023

May 2023

December 2022

May 2022

December 2021

May 2019

SKILLS

Tools and Languages

Python, C, C++, PyTorch, Javascript, MATLAB, OpenCV, OpenAI Gym, Houdini

Relevant Coursework

Advanced C programming, Python for Data Science, Data Structures, Probabilistic Methods in Electrical and Computer Engineering, Introduction to Artificial Intelligence, Software Engineering

Languages

English, Korean (Native Language), Chinese (Beginner)