

Dahui Song

(“Da-Hee”)

M.S. Mechanical Engineering Student | UIUC

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Education

UIUC (University of Illinois Urbana-Champaign)

Champaign, IL

Aug. 2023 – Present

M.S. in Mechanical Science & Engineering

· Supervised by [Kris Hauser](#)

SMWU (Sookmyung Women’s University)

Seoul, S. Korea

Mar. 2019 – Feb. 2023

B.S. in Mechanical Systems Engineering

B.S. in Software Convergence Engineering

· Supervised by [Joo-Yong Sim](#)

Work Experiences

UIUC, Intellignet Motion Lab

Champaign, IL

Feb. 2024 – Present

RESEARCH INTERN

· Research Topic: Robot Control, Robot Manipulation, Computer Vision, Human-robot Interaction (HRI).

SMWU, Intelligent Biomedical Systems Lab

Seoul, S. Korea

Apr. 2020 – Mar. 2022

RESEARCH INTERN

· Research Topic: Robotics, Healthcare Systems, Computer Vision, Machine Learning.

Projects

Eye Exam Robot

Intelligent Motion Lab

Feb. 2024 – Present

Developing an eye exam robot with the patient's actions and positions prediction.

SafeDrive: Enhancing Road Safety with Advanced Detection System

UIUC

Mar. 2024 – May. 2024

Designed lane detection, pedestrian detection, and traffic sign detection systems with weather invariance capabilities.

Non-contact Automatic Fare Collection System

SMWU

Sep. 2022 – Dec. 2022

Established a transportation fare collection system without physical contact.

Rescue Signal Detection and Reporting System

SMWU

Jun. 2022 – Aug. 2022

Developed a pose detection algorithm to recognize rescue signals and automatically report them.

Automatic Toothpaste Dispensing and Timing Robot

Created a sensor-based robot that dispenses toothpaste and sets a timer.

Rime (Robotics Club)
Nov. 2021 – Dec. 2021

The First Vision for Vitals (V4V) Challenge

Developed a model for non-contact, video-based physiological estimation.

Intelligent Biomedical
System Lab
Jun. 2021 – Jun. 2021

Driver Distraction Detection System

Developed a model to classify driver inattentive behaviors.

Intelligent Biomedical
System Lab
Jun. 2021 – Jun. 2021

Scholarships

Fall 2021	Research Support Scholarship	SMWU
Spring 2021	Tuition Scholarship, Merit-based Scholarship (20%)	SMWU
Spring 2021	Research Support Scholarship	SMWU
Fall 2020	Tuition Scholarship, Merit-based Scholarship (40%)	SMWU

Skills

Programming Languages		Software and Tools	
Python	Expert	AutoCAD	Experienced
C/C++	Expert/Experienced	Labview	Experienced
MATLAB	Experienced	Simulink	Beginner
Java	Beginner	ROS	Beginner