

Jeongbin Sohn

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EDUCATION

GIST (Gwangju Institute of Science and Technology)

B.S. Mechanical Engineering Major & EECS Minor

Mar. 2020 – Feb. 2027

GPA: 4.38/4.5

University of California, Berkeley

Study Abroad Program

Jan. 2026 – May. 2026

GPA: /4.0

Boston University

Exchange Program

Jul. 2021 – Aug. 2021

GPA: 4.0/4.0

GSA (Gwangju Science Academy for the Gifted)

High School Graduation

Mar. 2017 – Feb. 2020

Relevant Coursework: Computer Vision, Digital Signal Processing, Automatic Control, Robot Kinematics and Vision, System Modeling and Control, Dynamics, Introduction to Artificial Intelligence

SKILLS

- **Programming:** Python, C++, C, MATLAB, LaTeX
 - **Tools:** OpenCV, LabVIEW, Siemens NX, COMSOL Multiphysics, OpenFOAM
 - **AI Tools:** Codex, Gemini, Claude, Copilot
 - **Language:** Fluent in English, Elementary proficiency in Japanese
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RESEARCH EXPERIENCE

Embodied Dexterity Group (EDG), UC Berkeley

Jan. 2026 – Current

Supervisor: Prof. Hannah Stuart

- Estimated the **3D pose** of a **dorsal grasper** in a video of a C5-C7 injured patient, applying the PnP algorithm

Machine Perception and Intelligence Lab (MPIL), GIST

Jan. 2025 – Current

Supervisor: Prof. Pyojin Kim

- Developed **star identification** algorithm via **deep learning** to improve robustness against night-sky noise

Bio-Robotics Lab, GIST

Jul. 2024 – Dec. 2024

Supervisor: Prof. Jongho Lee

- Studied Robot Operating System (ROS) and **path planning**, refining research interest toward Robotics

KITECH (Korea Institute of Industrial Technology)

Aug. 2023 – Feb. 2024

Supervisor: Dr. Hojae Lee

- Translated codes into Python and implemented a domain-change algorithm for **indoor localization**
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PUBLICATIONS

- Conference Presentation
 1. **Sohn** and Park, 2025 [3DV](#), “ECO: Event-based Celestial Orientation Estimation”, Accepted for Poster Presentation
 2. Park, **Sohn**, and Lee, 2025 [ICROS](#), “A Low-Cost Celestial Compass Under Low-Light Featureless Environment”, Accepted for Poster Presentation
 - Articles in Preparation
 3. **Sohn**, Lee, Park, and Hepburn-Dickins, 2026 [IEEE RA-L](#), “Edge of Stars: Learning Stellar Graphs through Angular-Edge Inversion”
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AWARDS & FELLOWSHIP

Study Abroad Program Scholarship

Jan. 2026 – May. 2026

A scholarship granting 26,000 USD for eight students accepted for Study Abroad Program (SAP) to UC Berkeley

Korea National Science and Engineering Scholarship

Mar. 2020 – Feb. 2027

A scholarship to fund full tuition for eight semesters from Korea Student Aid Foundation, Ministry of Education

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Korea-U.S. Exchange Program for Advanced Fields

Jan. 2026 – May. 2026

An incentive scholarship of 9,000 USD bestowed by the Korea Institute of Advancement of Technology for 113 undergraduate students in South Korea

Woonhae Scholarship

Mar. 2025 – Feb. 2026

An incentive scholarship granting 2,780 USD per semester for 1 year bestowed by Woonhae Foundation. It is granted for students whose GPAs are over 4.0

U.S. Army Commendation Medal

Jun. 2023

GIST MEng Internship Presentation Award (2nd place)

Jun. 2021

TEACHING EXPERIENCE

Teaching Assistant

Sep. 2024 – Dec. 2024

- GIST GS2001 Multivariable Calculus and Applications
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OTHER ACTIVITIES

GIST Swimming Club Leader

Sep. 2024 – Dec. 2024

ELITE Club Foundation Member

Jul. 2025 – Dec. 2025

Korean-American Scientists & Engineers Association (KSEA) Member

Feb. 2026 – Current