

Zhengdong Hong

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EDUCATION

Zhejiang University

Ph.D. in Computer Science, State Key Laboratory of CAD&CG at Zhejiang University

B.Sc. in Electrical and Electronics Engineering; Rank: 1/48

Hangzhou, China

Sep 2021 – Jun 2026

Sep 2017 – Jun 2021

Electrical Engineering Excellence Program: I spent 6 days a week in the 24-hour open circuit design and debugging laboratory, independently learning and building embedded hardware and software systems.

RESEARCH EXPERIENCE

University of California, San Diego, [Prof. Hao Su's Group](#)

Research Scholar, Junior Specialist

UC San Diego, USA

Aug 2023 – March 2025

- Independently lead the project *Learning Dynamics Prior from Human-Object Interactions for Dexterous Manipulation*, finished for CoRL 2025.
- Published a first-author IROS 2024 paper *EasyHeC++: Fully Automatic Hand-Eye Calibration with Pretrained Image Models*, advised by [Prof. Hao Su](#).
- Responsible for hardware design and robot maintenance in [Prof. Hao Su's Group](#) since November, 2023.

Zhejiang University

3D computer vision (human pose estimation and dynamic scene reconstruction)

Hangzhou, China

Sep 2021 – Aug 2023

- Independently published a first-author ECCV 2024 paper *Free-Viewpoint Video of Outdoor Sports Using a Drone* [project page](#), which is focused on human pose estimation and 4D scene reconstruction.

AWARDS

Championship in 8th Texas Instrument Electronic Design Competition

Ranking: 1/1847 (TI Cup, Highest Award)

Texas Instrument

Nov 2020

- In 2020, I lead my team and championed 8th Texas Instrument (TI) Electronic Design Competition, where I lead the whole process of the design and evaluation of Amplifier Nonlinear Harmonic Distortion Analysis System.

PUBLICATIONS

- Zhengdong Hong**, Haowen Hou, Yuzhe Qin, Bo Ai, Tongzhou Mu, Jiayuan Gu, Hao Su, *Learning Dynamics Prior from Human-Object Interactions for Dexterous Manipulation*, submitted to CoRL 2025.
- Liangzhi Shi, Yulin Liu, Lingqi Zeng, Bo Ai, **Zhengdong Hong**, Hao Su, *Learning Adaptive Dexterous Grasping from Single Demonstrations*, submitted to IROS 2025. [project page](#)
- Zhengdong Hong**, *Free-Viewpoint Video of Outdoor Sports Using a Drone*, ECCV 2024. [project page](#)
- Zhengdong Hong**, Kangfu Zheng, Linghao Chen, Hao Su, *EasyHeC++: Fully Automatic Hand-Eye Calibration with Pretrained Image Models*, IROS 2024. [project page](#)

ROBOT SYSTEMS

I have **both software and hardware** skills for robotics, which enables me to independently build several complete robotic systems for Prof. Hao Su's Lab, including algorithm, hardware and system design. [see details](#).

- Su Lab's first mobile manipulation robot** equipped with a xArm and an ability hand (onboard power supply).
- Dual-xArm bimanual manipulation system** equipped with soft grippers for soft body manipulation.
- Dexterous manipulation platform** with 2 xArm7 and 2 ability hands for articulated object manipulation.

HARDWARE SKILLS

I have plenty of hardware experiences, [see details here](#). Here are some of my hardware skills:

- Electronics:** electronic design, PCB design, PSpice electronic simulation, robotic power design.
- Embedded systems:** DSP, PLC, other microcomputers (STM32, MSP430, etc.)
- Hardware debugging and electronic design for robotics Labs**, [see this document for details](#).