

# Chenghao Wen

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Education   **Southeast University**   2020.9-2024.7.

B.A., Information Engineering,

- Cumulative GPA:3.88/4.00(89.78/100)
- Talents of Entrepreneurship and Innovation Award(2021)

**University of California, Santa Barbara**   2023.9-2023.12.

Exchange Student, Computer Science,

- Cumulative GPA:4.0/4.0

**University of California, Irvine**   2023.6-2023.9.

Summer Research Intern, Computer Science

- Fine-tune SAM supervised by Annie Qu

Research   **SHSH: Sparse Hierarchical-representation with Synergic Head for LiD-AR Panoptic Segmentation**   2024.2-2024.11

- Propose ①:hierarchical-representation transformer and ②:cluster-set correction
- Programming and paper draft
- 1st Place in Nuscenes Validation Set, 2nd Place in SemanticKITTI Test Set

**Closed-Loop Machine Learning for QoE Inference**   2023.9-2023.12

- Coded pipelines for diverse data-collection over disparate physical infrastructures
- Applied Trustee for evaluation to guide the closed-loop data collection

**Segment Any Instance**   2023.6-2023.9

- Propose multi-level masks fusion to trigger comprehensive implicit knowledge
- Fine-tune SAM's prompt encoder for instance segmentation
- Consistently improve CenterNet and Mask-DINO based SAM segmentation

**Distributed Drive Chassis Motion Controller**   2021.9-2022.9

- Designed Controller Area Network(CAN) Protocol for multi-sensor signal cooperation
- Designed FPGA and PCB for the instrument display unit

**Noise Filter Neural Network for Electrical Impedance Tomograph Based Bone Fracture Detection**   2021.9-2022.9

- Applied MLP on Matlab trained with COMSOL emulation data to filter noise
- Designed FPGA for Electrical impedance measurement

Leadership	<b>SEU Zhishan Intelligent Vehicle Racing Team</b>	
	Vice Captain, <ul style="list-style-type: none"> <li>• Collaborate with teammates of different majors to design racing vehicles</li> <li>• Represent undergraduates and graduates in intelligent vehicle competitions.</li> </ul>	2022.6-2023.6
Awards& Fellowship	<b>SEU Entrepreneurship Practice Association</b>	
	Vice Chairman, <ul style="list-style-type: none"> <li>• Hosted lectures and winter camps for more than 40 entrepreneurial teams</li> </ul>	2021.9 - 2022.7
	<b>Fellowship for national-level research training project(¥20,000)</b>	
	Project Leader: Distributed Drive Chassis Motion Controller,	2022.4
	<b>The 17th National College Students Intelligent Car Race</b>	
	Third Place, <ul style="list-style-type: none"> <li>• Contributor for perception algorithm</li> </ul>	2022.12
	<b>China International College Students' Innovation Competition</b>	
	Silver Medal of International Projects (Top 2%), <ul style="list-style-type: none"> <li>• Market Research and System Test for distributed drive chassis controller</li> </ul>	2022.11
	<b>China International College Students' Innovation Competition.</b>	
	Silver Medal of Mainland Projects (Top 0.35%), <ul style="list-style-type: none"> <li>• Market Research for Steer-by-Wire Chassis Controller.</li> </ul>	2022.11
	<b>The 12th "Challenge Cup" Jiangsu College Inovation Competition</b>	
	Gold Medal,	2022.7
	<b>The 13th National College Advanced Mathematics Competition</b>	
Skills	Third Place (Top 3.2%),	2021.12
	<b>Deep Learning:</b> Pytorch for data-parallel and distributed training. <b>Programming Language:</b> Python, C++, Matlab. <b>Operating System:</b> Linux, Windows. <b>Hardware Design:</b> STM32, Analog/Digital circuit design and simulator. <b>Project Management:</b> Github, L <sup>A</sup> T <sub>E</sub> X,.	