

Chenghao Wen

www.chenghaowen.com

Cbstx602023@gmail.com

213201450@seu.edu.cn

Education **Southeast University** 2020.9-2024.7.

B.A., Information Engineering,

- Cumulative GPA:3.88/4.00
- 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 **SEU Zhishan Intelligent Vehicle Racing Team**

Vice Captain, 2022.6-2023.6

- Collaborate with teammates of different majors to design racing vehicles
- Represent undergraduates and graduates in intelligent vehicle competitions.

SEU Entrepreneurship Practice Association

Vice Chairman, 2021.9 - 2022.7

- Hosted lectures and winter camps for more than 40 entrepreneurial teams

Awards & Fellowship **Fellowship for national-level research training project(¥20,000)**

Fellowship Project Leader: Distributed Drive Chassis Motion Controller, 2022.4

The 17th National College Students Intelligent Car Race

Third Place, 2022.12

- Contributor for perception algorithm

China International College Students' Innovation Competition

Silver Medal of International Projects (Top 2%), 2022.11

- Market Research and System Test for distributed drive chassis controller

China International College Students' Innovation Competition.

Silver Medal of Mainland Projects (Top 0.35%), 2022.11

- Market Research for Steer-by-Wire Chassis Controller.

The 12th "Challenge Cup" Jiangsu College Innovation Competition

Gold Medal, 2022.7

The 13th National College Advanced Mathematics Competition

Third Place (Top 3.2%), 2021.12

Skills

Deep Learning: Pytorch for data-parallel and distributed training.

Programming Language: Python, C++, Matlab.

Operating System: Linux, Windows.

Hardware Design: STM32, Analog/Digital circuit design and simulator.

Project Management: Github, L^AT_EX,.