

Hong Si Cheng

Gender: Male Date of Birth: 07/11/2001

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EDUCATION

09/2023-Present Shanghai Jiao Tong University , Ph.D. Student **Shanghai**

Research Interest: Vision-based target vibration and displacement measurement

Supervisor: Assoc Prof. Xiong Yuyong

09/2019-06/2023 Shanghai Jiao Tong University , Undergraduate **Shanghai**

Major: Mechanical Engineering (Pilot Class)

Total GPA: 3.57 / 4.30 Rank: 14/31

Core modules: Calculus I/II, Design and Manufacture, Mechanical Vibration

RESEARCH EXPERIENCE

12/2020-08/2021 Shanghai Jiao Tong University **Shanghai**

State Key Laboratory of Mechanical System and Vibration

Core Member of Project *Long Range Measurement of Wire Diameter by UAV*

✧ Conducted independent research on algorithm of wire detection and measurement based on Hough Transform.

✧ Completed relative part of the patent based on the fruit of research.

03/2022-07/2022 Shanghai Jiao Tong University **Shanghai**

Independent research on *Investigation of Soviet Union Passive Bug* under the supervision of Assoc Prof. Yuyong Xiong, Shanghai Jiao Tong University.

✧ Conducted literature research and electromagnetic field stimulation by HFSS.

✧ Rebuilt bug model and investigated radar stimulation and response of the bug.

Intended goal: *Propose a new theory of the mechanism of the passive bug.*

Propose a resonant frequency of the bug. Investigate the bug model's reaction of radar stimulation.

INTERNSHIP EXPERIENCE

06/2022-07/2022 The Fraunhofer Project Center for Smart Manufacturing **Shanghai**

Designed an innovative assembled model for the project *Integrated Module of Projector and Cameras of Intelligent Interactive Assembly Table* using UGNX software.

HONORS AND AWARDS

11/2020 Three Good Student of Shanghai Jiao Tong University for academic year 2019-2020

12/2020 Blaser Swissslube Scholarship (Third Prize) of Shanghai Jiao Tong University

10/2021 Three Good Student of Shanghai Jiao Tong University for academic year 2020-2021

12/2021 Blaser Swissslube Scholarship (Third Prize) of Shanghai Jiao Tong University

08/2022 Second Prize of the 10th National College Students Innovative Mechanical **Shenzhen**

RESEARCH INTERESTS

Vision-based Measurement, Full-field Microwave Sensing, Image Processing and Analysis

SKILLS, CERTIFICATIONS & OTHERS

Language Proficiency:

- ✧ TOEFL: 102 (Reading: 30)
- ✧ Chinese (Native Language)

Professional Skills:

- ✧ 3D Modeling Software: UGNX
 - ✧ Programming Language: C++ , Python
 - ✧ Experienced in MATLAB, HFSS, Proteus, Keil uVision, etc.
 - ✧ Familiar with Windows, Microsoft Office.
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