Hong Si Cheng

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

Block X-57, Shanghai Jiao Tong University, Shanghai, China E-mail: hongsc77@sjtu.edu.cn Mobile: +86 17366395572

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 Swisslube 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 Swisslube 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.