

Chen MAO

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EDUCATION

Sep. 2017 - Jun. 2021

Wuhan University of Technology

Bachelor in Intelligent Navigation Technology

GPA: 84.2

Sep. 2022 - Dec. 2023

The Hong Kong University of Science and Technology

Department of Electronic and Computer Engineering

Master of Science in Telecommunications

WORK EXPERIENCE

Peng Cheng National Laboratory

Aug. 2023 – Present Research Assistant

Department of Broadband and Communications

- Participated as a researcher in the Laboratory's research program for next-generation communication networks.

Hongmen Electrician Technology Co., Ltd.

May 2021 - Aug. 2021 Researcher & Developer

Advisor: Prof. Jiangjun RUAN, Vice President of School of Electrical Engineering, WHU

- Led the development of the DMDD-01 and DMDD-02 version of a disconnecter failure diagnosis device.
- Employed LabVIEW to develop the control system of the device, installed relevant devices and conducted performance tests.

Fiberhome Telecommunication Co., Ltd.

Nov. 2021 - Aug. 2022 P-Marketing Manager

- Responsible for the European market for LAN cables, RF cables & hybrid cables etc.
- Provide technical support to front-line customers and sales staff.
- Collection and feedback of international advanced communication technologies, as well as technical training and Q&A.

RESEARCH EXPERIENCE

Research on AUV-UAV Coordination in Intelligent Ship for Marine Rescue, National College Student Innovation and Entrepreneurship Training Programme

Mar. 2019 - Mar. 2020

Advisor: Prof. Yong MA, Faculty Director at School of Navigation, WUT

- As project leader, took full responsibility for research team management, application and publication.
- Through literature research and group discussion, led the team to produce detailed research strategy.
- Employed Solidworks to design the configuration and structure of the subject marine device, produced its model and performed water testing.
- Received national patent ownership for the results of the research.

Research on Unmanned Marine Rescue Platform, The 8th National Marine Vehicle Design Competition by Chinese Society of Naval Architecture

Mar. 2019 – Aug. 2019

Advisor: Professor Yong Ma, Faculty Director at School of Navigation, WUT

- As project leader, took full responsibility for research team management, application and pitch.
- Employed Solidworks to design the AUV of the research and employed 3D printing to produce a vehicle model capable of water jet propulsion, underwater filming, mechanical hand gripping and location signal beacon launching.

- Optimised the UAV design capable of mechanical hand gripping, cruising and rescue supplies launching.
- Combined intelligent ship, AUV and UAV on the same platform and connected them with guidance technology and path planning technology, achieving remote coordinated control.
- Received School first prize and national second prize for the project.

PUBLICATION

- [1] **Chen Mao**, Hao Wang, Jinyan Zheng, Mingdong Wang, Chunhui Zhou: A Risk Assessment of Ship Navigation in Complex Waters. Information Technology and Intelligent Transportation Systems 2020: 135-141

PATENT OWNERSHIP

- [2] Ma. Y., **Mao C.**, and Zhao Y. J. "An Unmanned Coordinated Marine Rescue Platform" 202010679191. 4, 2020.
- [3] Ma. Y., **Mao C.**, and Zhao Y. J. "An Intelligent Perception and AR System" 202010702462. 3, 2020.

SCHOOL ACTIVITIES

School Student Council

Sep. 2018 – Sep. 2020 President of student union

- Managed a student team to plan and execute school events including orientations and sports competitions.
- Responsible for managing the public relations with various established organizations, including Maritime Safety Administration and COSCO Shipping Group.

AWARDS & HONORS

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| [1] Second Prize in the School of Shipping Freshman Talent Competition | 2017 |
| [2] Academic Progress Scholarship | 2017-2018 |
| [3] The 7 th World Military Games "Volunteer Star" | 2019 |
| [4] National Second Prize for the 8 th National Marine Vehicle Design Competition | 2019 |
| [5] School Second-class Scholarship | 2019-2020 |
| [6] Third-class Scholarship for School Merchants Energy Shipping | 2019-2020 |