

Priston Mars

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Education

- Sept 2021 - **Bachelor of Detection Guidance and Control Technology**,
Present *Harbin Engineering University, Harbin, China*, Expected Graduation: July 2025
- Sept 2024 - **Ph.D Candidate in Control science and engineering**, *Harbin Engineering University, Harbin, China*, Expected Qualification: Sept 2025

Publications

Publications Still Struggling to publish papers.

Research Experience

- Oct 2022 - **Cross-Domain Autonomous Self-Localization Gateway**,
September 2023 *Zhigang Shang's group, Underwater Acoustics Engineering college, Harbin Engineering University, China, Harbin, China*, Developed a buoy gateway device with self-propulsion and self-localization capabilities for air-sea cross-domain communication written the software for the underlying motion control system.
- September 2024 - **Underwater Optical Visual Guidance**, *Yuchao Wang's group, 409 institute, Harbin Engineering University, China*, Engaged in research focused on developing advanced optical guidance systems for underwater applications., Developing an optical pose estimation and guidance system reliant on cooperative targets to achieve docking tasks. This system provides state information to the control system, enhancing the accuracy and efficiency of underwater vehicle operations during docking procedures. Emphasized the importance of perspective distortion correction

Language Proficiency

CET 6 607/710 Listening: 211, Reading: 248, Writing: 148

Awards

Awards Recipient of the Outstanding Student Scholarship (awarded multiple times)

Skills

Programming Languages C, C++, Python, MATLAB

Software and Tools Linux, ROS, LaTeX, Gazebo, LcEDA, Keil