

Zhang Xian

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Address: West Youyi Road, Beilin District, Xi'an, Shaanxi, 710072, China

Research Direction: Human Factors Comfort, Cabin Lighting Environment.

EDUCATION

NORTHWESTERN POLYTECHNICAL UNIVERSITY

2022.04 – Present

PhD of Industrial Design (Supervisor: Prof. Chen Dengkai)

- **Main Course:** Optimization Method, Leading Trend in Mechanical Science and Technology, Design Philosophy Research, Human-computer interactive system, Academic English, Chinese Marxism & Modern Time, etc.

NORTHWESTERN POLYTECHNICAL UNIVERSITY

2019.09 – 2022.04

Master of Design Science (Guaranteed)

- **Main Course:** Computer Aided Industrial Design, Aesthetics of Technology, Product Mechanical Design, GUI Design Technology, Art & Design, Product Formative Design, Web Virtual Display Technology, etc.
- **Awards:** First-class academic scholarship, social activity scholarship, excellent graduate student title

NORTHWESTERN POLYTECHNICAL UNIVERSITY

2015.09 – 2019.06

Bachelor of Product Design

- **Main Course:** Introduction to Industrial Design, Ergonomics, Design Expression Techniques, Integrated Product Design, Computer-Aided Industrial Design (CAID), Color Science, Product Photography, Three Major Compositions, Effect Drawing, Interior Design, Packaging and Display Design, Environmental Design, Interaction Design, Design Psychology, etc.
- **Awards:** Northwestern Polytechnical University Outstanding Graduates, First-class academic scholarship, Hexagon Academic Scholarship

PUBLICATIONS

- **X. Zhang, Y. Qiao, H. Wang, J. Wang, D. Chen, Lighting environmental assessment in enclosed spaces based on emotional model, Science of The Total Environment 870 (2023) 161933. SCI, Q1, IF=10.753**
- Dengkai Chen, **Xian Zhang**, Mengya Zhu, Yiwei Sun. Comfort evaluation method of FTA-FBN for manned closed cabin, *Journal of Harbin Institute of Technology*, 2022.06 (Accept). **Ei**
- Dengkai Chen, **Xian Zhang**, Mengya Zhu, Jingluan Wang, Yidan Qiao. Review on Industrial Design of Manned Submersible Closed [J]. *Packaging Engineering*, 2022, 43(12):59-74. DOI: 10.19554/j.cnki.1001-3563.2022.12.007. **PKU**
- **Xian Zhang**, Dengkai Chen, Ziteng Wei, Ning Xie. Non-visual effects of closed cabin lighting environment on workers. (Submitted)
- **Xian Zhang**. A multi-objective optimization method for cabin lighting based on improved particle swarm algorithm. (In preparation)
- **Invention patent:** A device and method for adjusting the rate of illumination change based on task reaction time. (Received)

RESEARCH EXPERIENCE

HUMAN-COMPUTER INTERACTION SYSTEM INTERFACE DESIGN PROJECT

2020.03 – Present

Project Team Leader

As the project leader, I led the team members to complete a total of three sub-project tasks. Mainly responsible for task receiving, communication between industrial design tasks and production processing, and coordinating team members to cooperate with each other to complete the project.

- Industrial design of operating console layout.
- Cabin lighting simulation.
- Cabin concept design solution.

XXX PROJECT (D5120190221)

2020.12 – 2021.12

Core members of the project team

- Project industrial design and solution modeling optimization, before and after completing more than 10 iterations of the solution.
- Participate in project production and processing process.
- Write project industrial design report.

XXX SYSTEM TECHNOLOGY AND PLATFORM CONSTRUCTION RESEARCH (D5120210074)

2020.05 – 2020.10

Core members of the project team

- Responsible for the industrial design of projects. Using 3D modeling and rendering software for solution design, and iterative design and modification of projects with team members.
- Reviewed domestic and international literature on cutting-edge sleep monitoring technologies to propose basic design directions for the project.

SKILLS

- Proficient in Rhino and Keyshot
- Proficient in Dialux
- Familiar with PS and AI