

Stanford



Zhili He

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Bio

BIO

Zhili He is a Visiting PhD Student in the Department of Civil and Environmental Engineering at Stanford University, working with Prof. Hae Young Noh. He is currently pursuing his PhD at The Hong Kong University of Science and Technology under the supervision of Prof. Yu-Hsing Wang.

His research lies at the intersection of robotics, computer vision, and artificial intelligence for the built environment. His current work focuses on autonomous quadruped robot systems, SLAM, 3D building digitalization, BIM, large language models, and AI-driven structural inspection.

He has published research in leading journals including *Information Fusion* and *Automation in Construction*. His long-term goal is to develop intelligent robotic systems that enable autonomous inspection, digitalization, and maintenance of civil infrastructure.

PATENTS

- Jian Zhang, Zhili He, Shang Jiang. "United States Patent US12223632B2 Intelligent detection method and unmanned surface vehicle for multiple type faults of near-water bridges"

Publications

PUBLICATIONS

- **Generative AIBIM: An automatic and intelligent structural design pipeline integrating BIM and generative AI** *INFORMATION FUSION*
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2025; 114