

# **Design and construction of smart aquarium**

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**Abstract:** In reality, the demand for owning ornamental fish tanks is increasing, but the problem of caring for and maintaining the health of fish species still faces many difficulties. This project aims to design and construct a smart aquarium system, combining both theoretical research and experimentation to automate the fish care process. Through this, the project hopes to contribute to improving the quality of life for fish species and provide optimal convenience for fish keepers. The expected result is a smart aquarium management system that reduces labor burdens and enhances care efficiency.

**Keywords:** aquarium, smart system, automation, aquarium management, experimental research