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Remote Control Flood Relief Water Drone

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Abstract: Operational applications of the RC Water Drone in various disaster scenarios are explored, highlighting its potential to assist rescue teams, deliver emergency supplies, and perform preliminary damage assessments without endangering human rescuers. Finally, the project evaluates the future prospects of integrating artificial intelligence, autonomous decision-making, and swarm drone technology to further enhance the effectiveness and scalability of flood disaster management operations. The project discusses the key design considerations, including drone buoyancy, stability, propulsion systems, remote control range, camera integration for real-time monitoring, and payload capacity for life-saving equipment. Additionally, the technological components such as microcontrollers, wireless modules, sensors, and power systems are elaborated in detail.

Keywords: Remote control Technology, Arduino, Wireless Communication, Cost-Effective

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