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(57) Abstract :

This abstract introduces a pioneering voice control hydroponics system integrated with hydropower technology. The system employs voice recognition, leveraging the capabilities of voice assistants like Alexa, to remotely manage hydroponic setups. Users can adjust lighting, nutrient delivery, and environmental conditions via voice commands, optimizing plant growth. Moreover, the integration of hydropower harnesses renewable energy, powering the system sustainably. The combined innovation streamlines cultivation processes, reducing manual intervention and resource consumption, while improving crop productivity. This smart and eco-friendly solution holds great promise for indoor and urban farming contexts, contributing to the advancement of agricultural automation, energy efficiency, and sustainable practices in modern farming.

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