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(57) Abstract :

Fish farms are a good source of income; a high fish harvest would result in a respectable sum of money. Nonetheless, poor upkeep would result in damage. In fish production, good management is absolutely necessary for high output and profit. Yet, even with proper management, there is a chance of significant production losses due to a number of technical issues that might occur during fish culture. Loss may result from inappropriate fish feeding and water care. An IoT-based Solar Powered Smart Floatable Feeder for Domestic Fish Farms can be used to automate some of the human effort involved in fishery feeding. While the owner is working on other tasks, this can ensure that the fish are regularly fed. Even when the owner is far from the fish farm, the feeding process may be managed via smartphones. The fish feeder can also be programmed to feed the fish at a specific time, allowing the food to be delivered at regular intervals. This system can also support regular monitoring of the water's PH level, temperature, and turbidity and updates that data to an online database so that the owner can access it from any location at any time. The device works automatically every three hours to feed the fish, but it may also be manually operated by the owner using a cell phone to distribute food throughout the tank. When the water's PH, temperature, or turbidity changes, the system notifies the owner by sending a text message with the new information and a prompt to take appropriate action. If the necessary steps are not done, it will automatically send texts every hour. The system offers continuous power delivery because it employs solar energy as a power source. All of these parts were assembled into a single cabinet that was designed to float in the water and feed fish while doing so. Also, it analyses the state of the water before autonomously moving over it to complete its task. This mechanism keeps a close eye on the availability of the food. It will alert the owner through text message when there is a food shortage so that it may be manually refilled. Regular feeding can be provided by this gadget without interfering with the owner's work. This project explores the notion that fish will be fed even if you are away from your station. It will take the place of manual fish aquarium maintenance.

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