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**Centre for Engineering Education Research (CEER)**  
**Social Innovation in Practice**  
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**TECH-AQUARIST**

**ABSTRACT:**

To Maintain Aquarium, One of the most important aspects of keeping your fish healthy is ensuring you have the proper feeding system and right filtration system for their needs. Due to the hectic nature of human life or whenever fish owner is away from home, they find themselves unable to consistently provide proper feeding and filtration for their aquariums. This neglect leads to significant disadvantages, foremost among them being the compromised health and well-being of the fish.

**DESCRIPTION:**

Aquariums can be beautiful, but they also need to be well-maintained. Part of this involves cleaning the tank and adding water changes as required. The most common way to do this is through an aquarium canister filter. Effective fish feeding within aquarium environments is essential for proper health and growth of fishes. With the emergence of technologies including Internet of Things, we have emerged automatic fish feeding within IoT-based .

**CONCLUSION:**

In conclusion, the DIY canister filter utilizing sponge and a pump is an effective and budget-friendly solution for maintaining a clean and healthy aquarium environment. Regular maintenance and monitoring are essential to ensure optimal performance and longevity of the filter system. Overall, this DIY project offers a customizable and accessible option for aquarium enthusiasts seeking reliable filtration solution. The ESP8266-based feeder machine, integrated with blink, offers a seamless and innovative solution for pet feeding needs. Leveraging the ESP8266's capabilities for Wi-Fi connectivity and the blink platform for remote monitoring and control, pet owners can easily schedule and adjust feeding times from anywhere with internet access. With proper setup, testing, and integration with blink, the feeder machine provides an accessible and efficient solution for enhancing pet care and well-being."



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