

UNIVERSITAS INTERNASIONAL BATAM

Tugas Akhir
Program Studi Teknik Elektro
Semester Genap 2018/2019

PERANCANGAN AKUARIUM IKAN DENGAN PENETRAL AIR OTOMATIS DAN PENGGANTI AIR AKUARIUM BERBASIS *FUZZY LOGIC*

RAYGIE PINARDO DARTOK
NPM : 1521006

ABSTRACT

Things must be considered when raising fish is quality of water. The busyness factor is sometimes the reason for not maintaining the quality of water from time to time.

To resolve the problems, a system was designed to help the fish keeper to automatically maintain the quality of water in accordance to the ideal needs of the fish. The system detects the change level of pH in aquarium water. The changes in the acidity level of water will the trigger actuator to release neutralizing liquid to the aquarium water. Automatic water replacement mechanism will be activated if the water conditions in the aquariumis no longert suitable for fishes life.

The results of this project are systems that can automatically maintain water quality by monitoring an ideal pH level for fishes and automatically replace water if it is no longer suitable for use.

Keyword : pH sensor, Fuzzy Logic, Fish, Aquarium.