ABSTRACT

Some fish enthusiast sometimes don't have time to maintain it. That's because person activities. Fish care is difficult, for example replacement of regular water, feeding and lighting. Due to the frequent omission takes automatic control system.

This project will be designed using pH analog meter kit as pH sensor, microcontroler as a processing unit, LCD to display pH value, ethernet shield for interface microcontroler to router and router which connected with CDMA modem as a transmitter of information to twitter. And used RTC as well required clock and date.

With this design is to create a tool that is capable of monitoring and automated controls that can help fish enthusiasts who don't have much time to do aquarium maintain. This can be seen the results of testing and analysis tools available : the success percentage of control pH value is 100%, feeding is 100%, turn on or off light is 90%, water draining is 100%, and reporting system to twitter is 100%.

Keyword : *pH analog meter kit, Arduino UNO, ethernet shield, otomasi, RTC DS 1307 level sensor,LCD, I2C, router, modem, akuarium.*