

Otomatisasi Kran Dan Penampung Air Pada Tempat Wudhu Berbasis Mikrokontroler. (Automation Faucet And Water In The Ablution Container Based Microcontroller).

Rezandi Eka Pratama

Program Studi Teknik Komputer

Jurusan Teknologi Informasi

ABSTRACT

Water is the source of livelihood for humans while the availability of fresh water on earth is lacking for use by all mankind on earth. In terms of convenience and also provide an effective water use then comes an idea to create a tool that automatic faucets. While the function of the automatic faucet itself to be more effective and also easy to use without having to turn the faucets in advance As for the material of the tool using sensors *PIR (Passive Infra Red)* which serves as a detector object. Sensor *PIR (Passive Infra Red)* on the block is capable of working at temperatures above 0 absolute as human beings have a body temperature of 32 degrees Celsius, which is typical of the environment. Infrared rays on the human body and movement of the human body which is then captured by a *pyroelectric sensor* which is the core of *PIR* sensor while the wavelength reaches 8 to 14 micrometers and *Solenoid Valve* as a valve open-close automatic valves.

Keywords: Water, Sensor *PIR (Passive Infra Red)*, *Solenoid Valve*