## **ABSTRACT**

Someway that public can do to save electrical energy is by used electrical energy if it necessary. This Final Project that have title "Design and Realization of Light Controller System and Human Detector inside the Room Based on Microcontroller AT89C52" trying to help public to save that electrical energy.

This light controller system worked based on result of human detection that go inside and go outside the room. The light will automatically glow at moment the first people go inside the room, and the lamp will automatically dimmed if the final people that was inside the room go to outside. That human detection is doing by two *Pyroelectric Infrared (PIR) Sensor* that installed side by side. First PIR is used to detect the people who go inside, and the second PIR to detect the people who go outside. From that result of the detection, microcontroller will control: 7-segment to inform how many people in the room and relay to glow and dim the light. The other way to control the light is by pushing the push button and by use remote.