

## ABSTRACT

The projector is a tool for explaining the process, or display a slide show presentation. This tool has been used in various institutions, both in schools, colleges, offices, and other places. IT is no exception in Telkom projector has also been widely used for example faculty meeting room, and the Hall of IT Telkom, it means the use of a projector is very important and very necessary to explain the ease of learning materials, as well as presentation materials. The use of a projector in a classroom of students has been a problem, because it's classrooms do not always use every day, sometimes classes have been used but the projector still continue to live (on). Boy it makes Office should check to make sure each class is used or not a projector, and it's a very complicated job because so many classrooms and the number was a little boy Office.

At the end of the project has made an application or software to be able to monitor the classroom and the use of the projector. This monitoring tool to get information from the webcam that monitors the room is vacant or filled by a student, when a software tool has been informed then gives instructions via the software application is directly connected to a hardware device or microcontroller which microcontroller device is connected to the projector and the remote device This hardware is directly turn off or turn on the projector with the remote.

At the end of the project has been tested how this software can be connected to the instrument hardware or hardware to control power to the projector through the application remotely.

**Keywords:** *microcontroller, projectors, and monitoring*