

ABSTRACT

Effective learning method is one of the key success of learning (Danasasmita, 2009). A study has the main objective is to make the students know and understand about the field being taught. Professionalism automation is one of professionalism in the Faculty of Industrial Engineering in Telkom Institute of Technology that focused learning Industrial Automation Systems.

Automation System is a fully automated system to implement in a case where machines take over all human works (source: www.petra.ac.id). Based on the concept of automation needed a learning method that really can help people to understanding the lessons. The method is demonstration method. This method is more effective than others because this can be explained in detail about the machines that are used in automation systems to information about the workings of the machine.

This research will be designed a props which can explain the components of the automation system, one of which is the design of automated parking system simulator. The system is designed to be used as an aid in understanding the controller (PLC), actuators, and sensors. In addition, the design of the automated parking system will be equipped with a SCADA system design (Supervisory Control and Data Acquisition) which will serve as a tool for controlling and monitoring process of the automatic parking system's performance (Wicaksono, 2012).

In additon, there is a system needed to build it. That is SCADA system which the design is also expected to be a teaching tool for students of the Faculty of Engineering Industrial Automation professionalism in which students can see how the processes occurring in the plant integrated with SCADA and process control systems through the plant SCADA system.

Keywords: Automation Systems, Simulator parking, SCADA, PLC