

## **ABSTRACT**

*Permata Buah Batu housing complex is located in the Universitas Telkom area, located on Jalan Bojongsoang Raya, Bandung Regency, West Java. In access to and out of the Permata Buah Batu housing using an Arduino-based PPO, uses an RFID card as access to enter the housing. And there is CCTV that is placed on the entrance and exit access. But in PPO that has been installed in Permata Buah Batu housing, there are often problems with the device used, especially on the RFID Reader, and the placement of CCTV is considered inappropriate. This can occur because of equipment that is not maintained or from the user of the tool itself or due to limited budget. This study aims to determine how important the use of CCTV for PPO and to find out the placement of CCTV that is good and right based on the SCC (Surveillance Camera Commissioner) to avoid theft. Because PPO is the main entrance and exit access to Permata Buah Batu Housing. The results obtained in this study are the calculation of the criteria that produce criteria for the number of weights using the SAW method, so that CCTV with a weight of 0,94 is the highest rating and is expected to increase the security of Permata Buah Batu Housing to be more effective and also reduce the risk of theft.*

*Keywords: CCTV, SCC, CCTV placement, SAW*