

ABSTRACT

As time goes by, technology continues to develop rapidly and change human lifestyles. What initially started with using stones as tools, to now where daily life can be controlled and monitored via an application on an individual's smartphone. Of course, with the development of technology, the delivery of goods or packages has changed to become more innovative in the form of e-commerce. This topic aims to design and build a Delivery Robot Prototype with a focus on security methods based on 4-digit PIN and face-capture, which, with this robot, can replace humans in delivering goods in areas that cannot be entered by foreign individuals. The use of delivery robots is still limited to closed environments, such as closed housing complexes, apartments, and offices to ensure the safety of goods or packages being sent and reduce the burden on security guards and the risk of disrupting their work in guarding the designated places. Thus, it is hoped that the design robot, or prototype of this robot, can provide innovative solutions in the goods delivery process and increase the security of the packages being delivered.

Keywords: Robot Delivery, e-commerce, smartphone

