

## **ABSTRACT**

*The increasingly rapid development of technology encourages various aspects to be able to keep up with this. One aspect that is affected by current technological developments is security, especially security that still uses conventional keys. With conventional keys having the risk of being lost or stolen, in anticipation of this, many electronic keys have appeared on the market.*

*Having an electronic key is very helpful in overcoming problems that often occur when using conventional keys. Currently, there are many electronic locks on the market with various security models offered. Even though we have followed technological developments, it cannot be denied that electronic locks are not immune from burglaries that occur. In this case the breach occurred in the form of hacking the existing security system.*

*Nowadays, everyone cannot be separated from cellphones as their means of telecommunications, especially those who have high mobility. With the existence of mobile phone based electronic keys as a solution to the problems that occur. With security in the form of verification codes such as OTP, it can reduce system hacks that occur.*

*Keywords: mobile phone, OTP, Security, seamless*