

## **ABSTRACT**

*One is human nature to forget. Sometimes people forget to bring items that should be taken so that they lag away. Wallets and cell phones are examples of small items that sometimes people forget it.*

*Therefore we need a tool that serves as a reminder or a reminder that sometimes someone forgot to take their belongings. This tool will be reminded that a person is expected to risk anything behind will minimize. In this final project, designed tool that can be a reminder to remind someone will accidentally left behind items using a wireless system. The working principle of this device is using Amplitude Modulation (AM) is implemented as a modulator (transmitter) and demodulator (receiver). Transmitter and receiver are mounted on a person and their belongings are often left behind. The analog signal will be sent to the receiver transmitter will be detected voltage, if the voltage received is below the threshold (threshold) then the switch will be connected to the buzzer so that the buzzer will sound and alert someone to pick up the items left behind.*

*After this final assignment is made, the transmitter output power obtained at -11 dBm and transmission range up to 60 cm measured from the receiver. At 60 cm the value of the voltage at the relay towards the buzzer is at 0.3 volts, is what causes the buzzer sounded. In addition, the tool that works on AM-SSB modulation (Amplitude Modulation-Single Side Band) is obtained by the working frequency of 27.5 MHz with a modulation index ( $m$ ) of 0.7.*

**Keywords:** *Reminder, Amplitude Modulation, transmitter, receiver, threshold*