

## **ABSTRACT**

*Electronic goods cannot be separated from today's society where they use electronic goods for everyday use to find information, information entry, travel, scheduling going on vacation, playing online, socializing, etc. A company worker or state worker and an organization worker can accelerate the completion of work, distribute work to other workers, and facilitate the delivery of the latest information that can affect the organization's footprint, economy, member data, and diplomatic status. A number of these electronic items are in the form of smartphones, laptops, TVs, and computers.*

*Electronic goods will definitely be damaged and there must be something to be replaced but replacing electronic items that have minor damage in the motherboard section is very wasteful of money rather than repairing the right parts, and doing repairs on its own is training that gives an understanding of electronic goods that people buy.*

*Repair of electronic goods often uses lead wires, similar types of components that are needed and soldering tools. Soldering has been sold massively and is easily available at electrical and electronic stores, but new-soldered solder users can get an accident that can damage electronic goods that they want to repair, damage other items that cannot stand the heat, and injure users with burns. The design of this iron solder product aims to improve the safety of solder users and facilitate the use of solder.*

**Keywords:** *Keywords: Electronic goods, self repair, soldering*