

## **ABSTRACT**

*The type of strappy/lace-up shoes have a quite large market range up to nowadays. Along with its high mobility as well as supported by the convenience that it is offered to users, sometimes users enforce or modify the usefulness of shoes itself. Usually this occurs frequently on users within the age of 18-25 years old, or usually called an early adulthood phase. Mostly unaware, if it is done repeatedly, it can cause trauma to the foot, even to waist and shoulders. Some of the innovations that are already on the market, such as magnetic shoelace and silicone shoelace still lacks of its endurance and strength. The purpose of this analysis to the both of those types of tools is to provide a standard in designing tools in which can simplify the process of wearing strappy/lace-up shoes becomes faster with not forgetting the fitting shoes to the foot itself. The analysis is done using quantitative methods in order to find out the problem in greater depth. On the other hand, this research is analyzed by using comparative method against both types of tools products in order that the result of the products can achieve the function that users has expected. The purpose of the design of this tool is to provide an alternative design tools a shoelace can shorten the process of wearing shoes laced and keep the shoe fitting against the foot. Research using qualitative and quantitative methods in order to find out the problem in a more deep. In addition the research examined aspects of the function of the resulting products in order to reach the expected functions. The final outcome of this designing is to produce designing tools products that can be applied on shoelace, which can simplify the process of using a strappy/lace-up shoes.*

**Keywords:** *Designing, tools, Shoelaces, Facilitate*