

## **ABSTRACT**

### *PLOTTER IMPLEMENTATION USING RASBERRY PI WITH INPUT PIXEL COORDINATE*

*Printing tools or Printers is a tool that is often used to print a data in the form of images and text. Sometimes problems arise during the use of the printer, such as the limited area or media to print images or text. Printer technology also needs updates to keep up with the times and can be used more effectively in terms of time and cost.*

*Based on the problem, therefore the tools needed to reduce the cost is a plotter machine technology that is able to create an image data and writing with a pencil that can be used in various types of areas or print media such as walls. The data input obtained comes from a computer hardware in the form of an application to convert the image into pixel coordinates. After the image or text data is detected, the plotter will illustrate every detail of pixel position in the form of X and Y coordinates.*

*In this final project, the writer will implement a data input in the form of pixel coordinate (G-Code) obtained from open source application (Proccessing). The author's hope is to answer all the problems in the use of print media on printers and to develop a more creative and useful printing machine technology for everyone.*

*Keywords: printer, coordinate, pixel, plotter*