

Project	CNC Cutting Foam
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Abstract

The CNC Cutting Foam project aims to create an CNC Cutting Foam and to cut the foam into the desired form through the computer system by presenting a method of cutting foam using hot wire that works with CNC system. For the tools used in system development, the creator uses C++ to write hardware development programs through the Arduino IDE program, use Candle program to controlling the CNC cutting foam, use Inkscape program for creating G-code files, GRBL firmware used for controlling CNC, Arduino UNO for controlling stepper motor and micro stepping motor driver A4988, Arduino CNC shield for controlling movements And DC-DC Converter for controlling the hot wires.

Keywords Foam Cutting Machine, CNC, Arduino