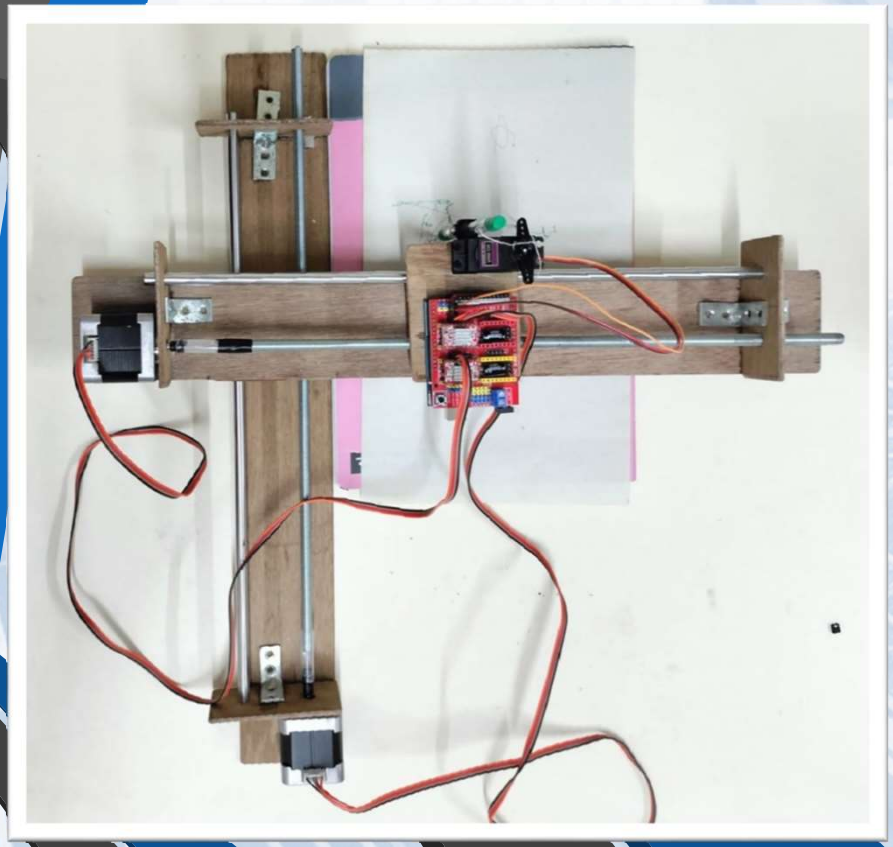
Automatic Writing Machine

Exploratory Project: Group 36



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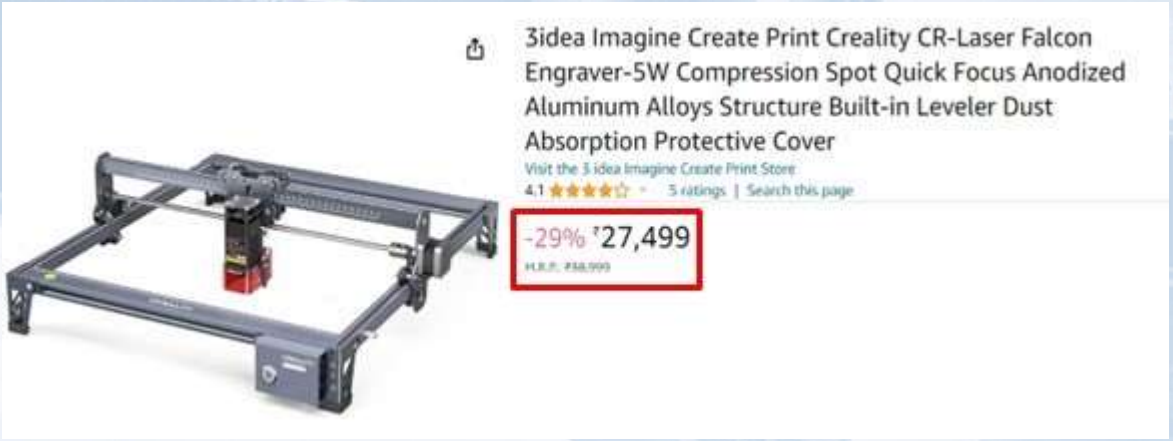
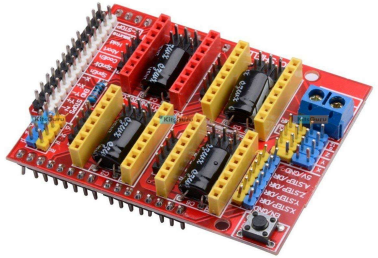
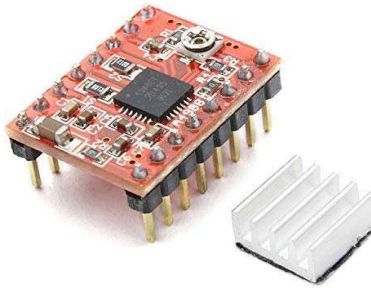
Overview of our
project

Motivation



- Scope of cost reduction.
- Multiple practical uses based on the same principles

Hardware Components

				
Servo Motor	CNC Shield	Rods	NEMA Motor	Motor Driver
				
Angles	Arduino UNO	Rounder	Nuts	12V Constant Supply

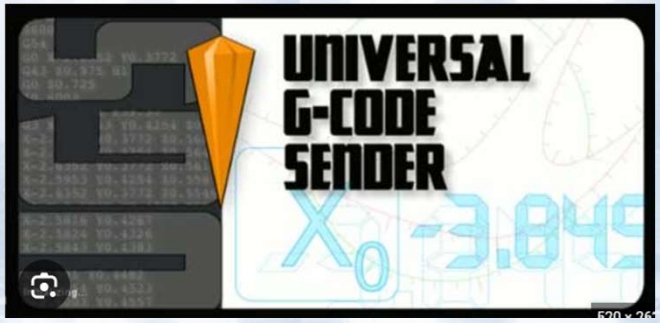
Software requirements

INKSCAPE

Draw the image and converting it to G-code.

ARDUINO IDE

Maintain the functioning of Arduino.



UNIVERSAL G-CODE SENDER

For controlling CNC machine to move along the axes according to the input G-code.

Design Specification

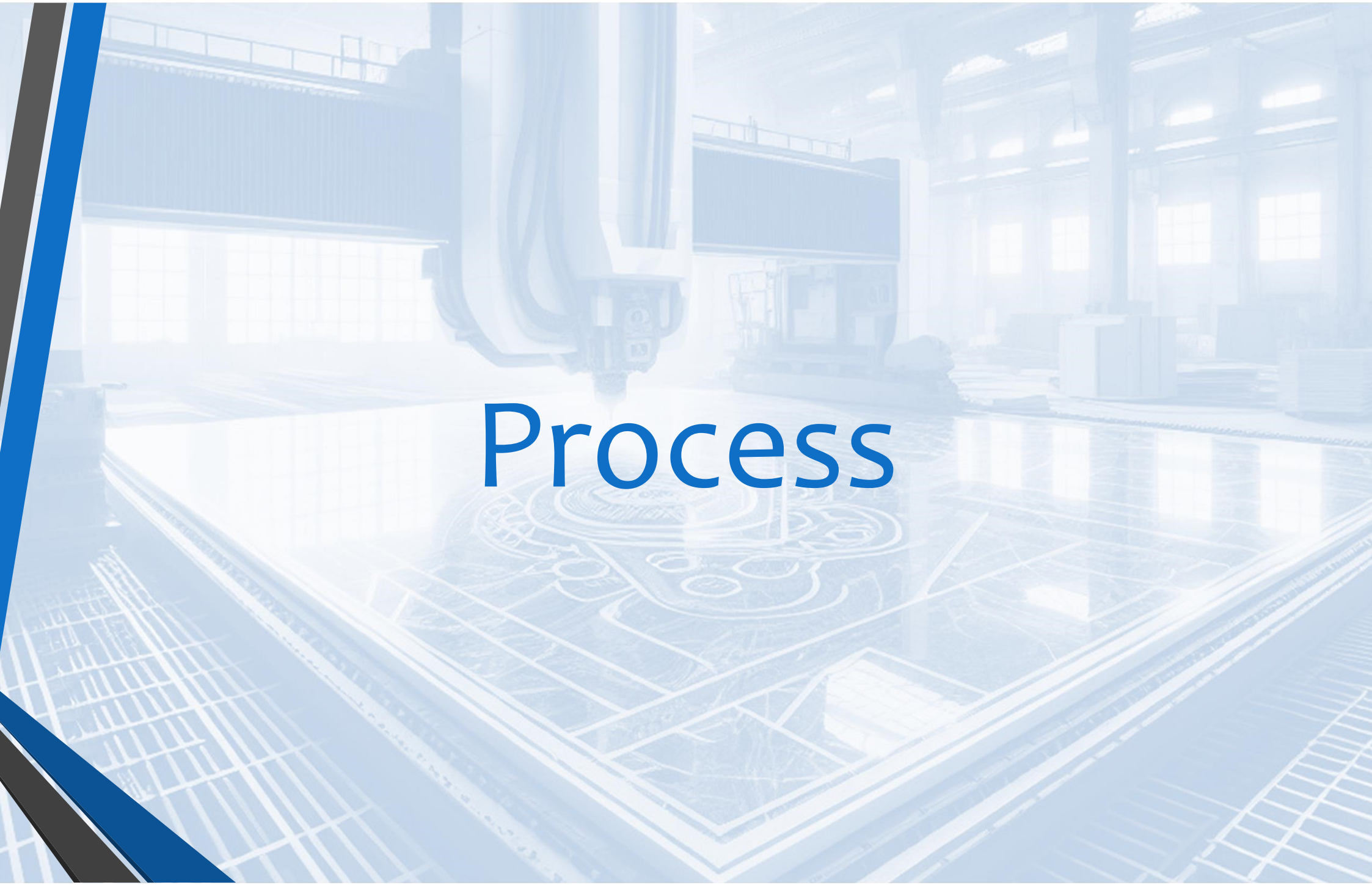
- Dimensions: 28cm X 28cm.
- Lifts pen by 1cm.
- Model entirely made of wood.
- Angles used to support the wooden frame.
- A wheel used to support the y-axis.
- Power requirement of 12V DC supply.

Future scope

TriAxisNanoScope

Marble Cutting Machine

Working of our proje


Process

Conceptual Phase

- Go through different ideas, research it and think whether it is practically possible.

Mentor Brainstorm

- Regular meetings with mentor for guidance on realistic ideas.

Lab staff Assistance

- They can help you with their precise knowledge of devices and their functionality.
- (Like, in our project, lab staff helped us to identify the error in G-Code file)

Work Experience

- How this coding things just connects with the hardware and how it functions according to the different piece of code

Thank you