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Automatic Writing Machine

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ABSTRACT

In the present research work we have discussed the design and development of Homework composing machine utilizing Arduino. This machine can draw any design and write any type. An Automatic writing machine uses a variety of technology it is reliable and safe to use.

INTRODUCTION:-

It is a modern writing machine Automatic Specifications. Sometimes when we want to write some calighraphy lines it can write itself by making changes in the program. It can be possible to connect the writing machine with the mobile phone, Computer or Laptop. Hence, we will able to write anything from anywhere. Also we can be able to maintain the speed of writing. It can be wired as well as wireless. But, to make changes in program the AURDINO IDE & BEN-BOX Software is must. It is a lower cost device. This machine can draw any design and write any type. An Automatic writing machine uses a variety of technology it is reliable and safe to use. Automatic writing machine is automatic writing machine use for the typing any type of text and drawing any design on paper. Automatic writing machine is working like a automatic machine. This Machine is working on 3 axis (X, Y, Z). This three axis motion is given by stepper motor and servo motor. In Specific time and manner, it can write and design the alphabets It is an extremely valuable item and can be utilized in everyday life to endeavor more less demanding and is exceptionally useful for school and school going understudies and extremely helpful for the corporate world moreover.

PROBLEM DEFINITION

The present open record for every one of the exchanges and that at any point occurred in the system, the development is steady and the extent of the system likewise develops in parallel. The record is ethical and can without much of a stretch convey on the arrangement of substances of the entire framework surrendered to the lack of interest. Homework composing machine is an auto composing machine through which you can make your work simple by programming your venture. According to the title this is a straightforward task utilizing Arduino to make Homework composing machine at your home. This machine can draw any outline and compose any sort of fonts. You can see sharpness and flawlessness of writing in photographs. The machine utilizes a gantry to move the composition tip along the X on an and Y tomahawks. The flexible-nib pen is mounted servo engine which turns the tip onto the composition surface, dealing with the third hub.

METHODOLOGY

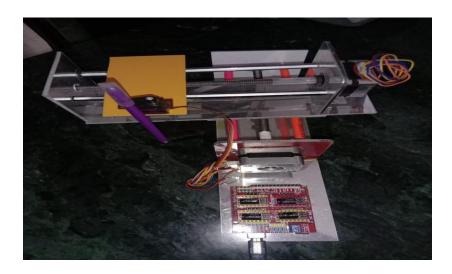
Automatic writing machine is automatic writing machine use for the typing any type of text and drawing any design on paper. Automatic writing machine is working like a Automatic device. This Machine is working on 3 axis (X, Y, Z). This three axis motion is given by stepper motor and servo motor.

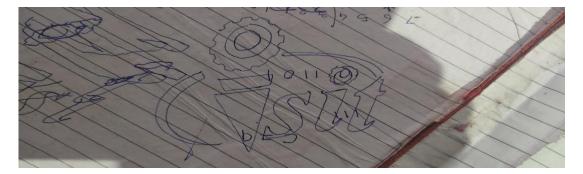
IMPLEMENTATION

Stepper Motor 1, Stepper Motor 2, Metal Gear Servo, Expansion Board A4988, Battery, Aurdino UNO R3 are the following components used in device. Stepper Motor 1 & Stepper Motor 2 is commonly used in CNC machines, Hard Drives and Linear Actuators. Hence it is further connected to expansion board A4988. Metal Gear Servo MG90S is a micro servo motor with metal gear. Hence it is connected to expansion board A4988. Aurdino uno R3 is also connected to expansion board A4988. Expansion Board A4988 is connected to battery.

In our project Input is a program as aurdino is used. Hence we connected the metal gear servo motor and two stepper motors on the expansion board. As the specification of expansion board is 4 motors can be connected. Then the expansion board is placed in aurdino uno. A pen is connected to the metal gear servo so when we will give some input in the ben-box software the pen will start writing automatically and give the specified output.

RESULT





CONCLUSION

It has been a great pleasure for me to work on this exciting and challenging project. This project proved good for me as it provided practical knowledge of not only programming in java to some extent Web Application and firebase Server, but also about all handling procedure related with AUTOMATIC WRIT-ING AND DRAWING MACHINE.

It also Provides knowledge about the latest technology used In developing web enabled application technology that will be great demand in future. This will provide better opportunities and guidance in future in developing projects independently. The project is fully fledged and user friendly, End users will be lightened in using this software because it is easy to have bills and reports and mostly all contents to be entered are to selected from combo box.

It can be used for the student of engineering and school student to make their science fair project. Any Artist can draw an outline diagram for their work. The principal can use as a sign the certificate. Write anything in Smartphone case cover. A student can draw their outline of a sketch. Also, they fill up a colour in it. The student does their homework with this machine at home.

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