

FABRICATION OF 2D CNC PLOTTER

A project report submitted in the partial fulfilment of the requirement for the award of
degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

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AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

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CERTIFICATE

This is to certify **BHEEMIREDDY CHINA BABU** (15815A0304), **PILLA DILEEP KUMAR** (15815A0344), **THOMMANDRU KRISHNA VAMSI** (15815A0351), **KASIREDDI PRASAD** (15815A0324) of engineering final year have done their project work on **"FABRICATION OF 2D CNC PLOTTER"** at **AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY, Narsipatnam** in the partial fulfilment of the requirements for the award of degree of "Bachelor of Technology" in "MECHANICAL ENGINEERING" to JNTUK University, during the academic year 2015-2018. The result embodied in the project report has not been submitted to any other institute for the award of any degree.

INTERNAL GUIDE

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ABSTRACT

2D CNC PLOTTER:

Aims to automate the plotter to produce images by moving a pen held by structure that can move the pen in two orthogonal directions the plotter can raise and lower the pen as required to create the desired image. This is done using Arduino & stepper motor. Computer numerical control (CNC) machines are automated milling machines that make industrial components without human assistance. This is possible because CNC machines are fed a series of instructions that are delivered to an internal computer controller. These instructions are in the form of codes that belong to the numerical control programming language. The code used to program CNC machines is generally called G-code. the code used to program CNC machines is generally called G-code. However G-code instructions are only part of the program language. Specifically G-codes gives CNC machines the coordinates.