**AUTOMATIC ELECTRONIC MUSIC CONTROL DEVICE - MIDI CONTROLLER**

CENTENNIAL COLLEGE

ELECTRONICS ENGINEERING TECHNOLOGY

Group 2 : Technical Project

Submitted to :

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Description :

A hand holding a bunch of wires

Description automatically generated

Project Automatic Electronics music control device unique way to serve for community. We build this project to bring overcome on economical, environmental and social challenges. In this project, we use teensy 4.0 Arduino board as main control unit and with its interfacing unit we used different analog and digital input/output electronics component such as potentiometer(analog),ON/OFF switch(digital),Push buttons , bidirectional(X-Y) analog mouse control to make music transition better. With programming we able to make electronics components to control various music parameters like Bass, treble, volume, Gain ,tempo according to users choice. This projects brings quality, equality and sustainability in the world.

**What Does it do ?**

A wooden box with knobs and wires

Description automatically generated

* This device serve as a unity and community builder. With use of this project non-profit organization take advantage to create event and gather all community people at one place so that they like or enjoy each other companies.
* This Device works on concept 3 R’s Reduce , Recycle, and Reuse to create pollution free environment

Reduce : To make this project device we reduce to use of most polluted materials like Plastics for environmental safety. Mathematically we use accuracy and precision in measurements to minimize use of wood

Recycle : This Project is made of wood so that we can recycle if in case of any damage

Reuse : Wood is renewable material so that we can reuse in other purpose also.

* This device helps economically to baggers and people who unable to learn and earn but they have skills .In other words, it creates employment opportunities.

**Why do you choose this project ?**

A rectangular box with buttons on it

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We choose these project for many reasons :

1. Health : Music is a language that heal every disease, we live in the world where individuals health is paramount. This Project device helps as stress relief device by creating excellent rhythm of music.
2. Education and Employment : By this project we interlink music industries to electronics industries so that electronics students who have interest of music can learn about music and for musical programming student can electronics. In other words a student with multifaceted career that helps them to create an employment in their interested field and main career field.
3. Community : This project is ideal to connect the people across the world by this project we can host free event where all community people meet, eat and greet
4. Economical : In live market this items quite expensive around cost of around $2599 but our project has total cost of around $500-$1500
5. Quality : In this project we used quality material wood that environment friendly and renewable

“Stay Tuned”