

Team Members (1, 2 or 3 only)

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Project Title: Coin sorter and counter machine

Project Description:

This machine will be able to sort and count coins by using a mechanism where the coins will be sorted by size and counted every time they fall into their corresponding box. The mechanism will include a DC motor controlled by PWM which will rotate a disk and send the coins to a rail where they will fall because of their varied sizes and will pass through a photo resistor for detection, and finally the number of coins per each box will be displayed on a LCD display so we can know the exact amount counted.

Modules and Devices used:

- DC motor (PWM)
- LCD display (12C or SPI)
- Photo Transistor (A2D)
- Viva Board(PIC16F1829)

Mid-Project Bench Mark Described:

We consider finishing schematic, and the coding part of the project and then move on to building the mechanism structure.