Team 4

Interactive Wheel of Fortune

Week 9 Report

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Wheel

The wheel was completed in entirety
Silver numbers attached to each pie piece
1st layer of top coat was applied
  - More need to be applied
Wheel

Short movie of the wheel spinning by the motor

spinning wheel.MOV
Motor Coupling System

- Metal pieces used instead of the bearing block
- Motor sits right in the wood and is unmovable
- Locking mechanisms in place
Circuit

PCB partially designed

- Order it this coming Monday

Amplifying Circuit

- Used to amplify the speech from the SP03
- However, there was too much distortion before adding a low pass filter
  - With the low pass filter some distortion is still present
Circuit

- Still needs to be worked upon
  - Not getting the desired output
  - Used a NPN transistor for a PWM input into the motor, but that still didn’t work
  - IRF511 Enhancement MOSFET will most likely be used
Future Work

- Screw down the wooden block
- Purchase a PCB board
- Finish the Questions & Answers book
- Burn the comments for the SP03 onto the chip
Currently we are managing our time well.

With the motor coupling system and the wheel completed we can focus all of our time on the PCB board.

Overall Hours

- Yavi: 18, Kristen: 13, Meghan: 13