

Group Project - Proposal

Github Repo - <https://github.com/Deniz-Misirlioglu/484Pinball>

Proposal

For this project, we will be creating a galaxy-themed pinball machine with various electrical components.

Obed: Responsible for creating the plunger for the system. Planning on using a solenoid to launch the ball into the play area. If the voltage supply is too low, then will be looking to use a supply greater than 5V or reconfiguring the plunger system (putting it on the side instead of on the bottom).

Deniz: Responsible for creating a random moving ball blocker which moves horizontally across the pinball board. A conveyor belt object will be built which moves an object capable of moving the pinball and changing its trajectory adding difficulty for the user. This conveyor belt will be supplied with 5V or greater to increase motor speed.

Lucian: Responsible for creating the flipper system. Plan on using either a servo for each flipper or a solenoid depending on what works best with the ball and a 5V supply. This depends on which one can flip the ball better. There is also a possibility to add a simple open-and-close system for the holes in the back to change the playfield a little.

Jared: Responsible for creating the scoring/display system. An OLED display will be used to present the score, when a jackpot is hit, and when a different game state is reached. An Arduino will be used as a central hub to connect all the other systems and to read output from those systems to control the score and game states.