

A decorative graphic consisting of blue circuit-like lines with small circles at the ends, extending horizontally from the left and right sides of the central black box.

Process Control Final Project

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INTRODUCTION

Hardware

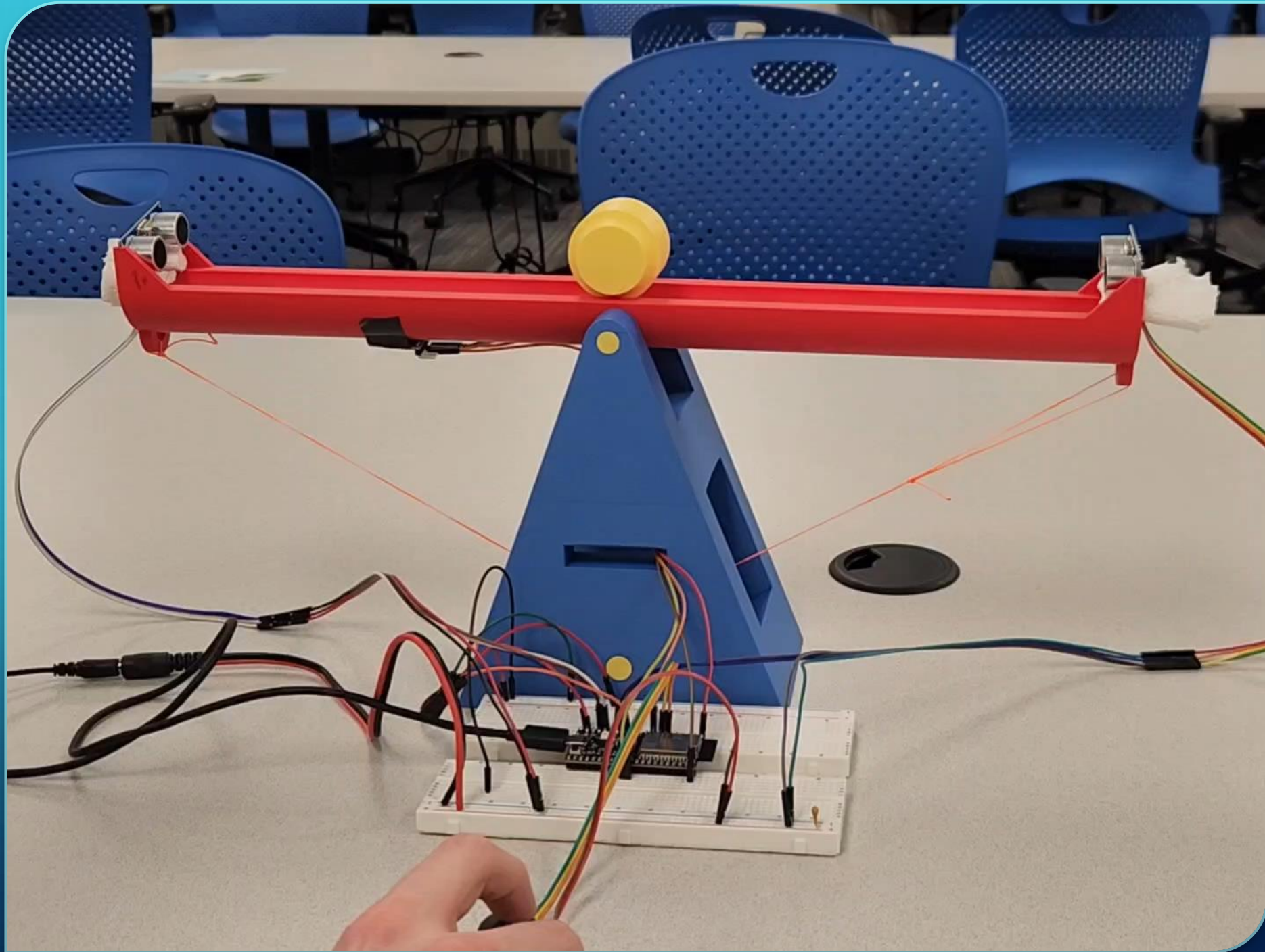
- 3D printed components
- ESP32 Microcontroller

Software

- Micropython
- Cascade-type PID control



DEMONSTRATION



MOVING FORWARD



Limitations

- Curved surface of ball led to messy data
- Slow max angular velocity

Pros

- Economical learning opportunity
- Engaging design



CONCLUSION