

# Hardware Assignment 3: Iterative Design

By Atlas X 3

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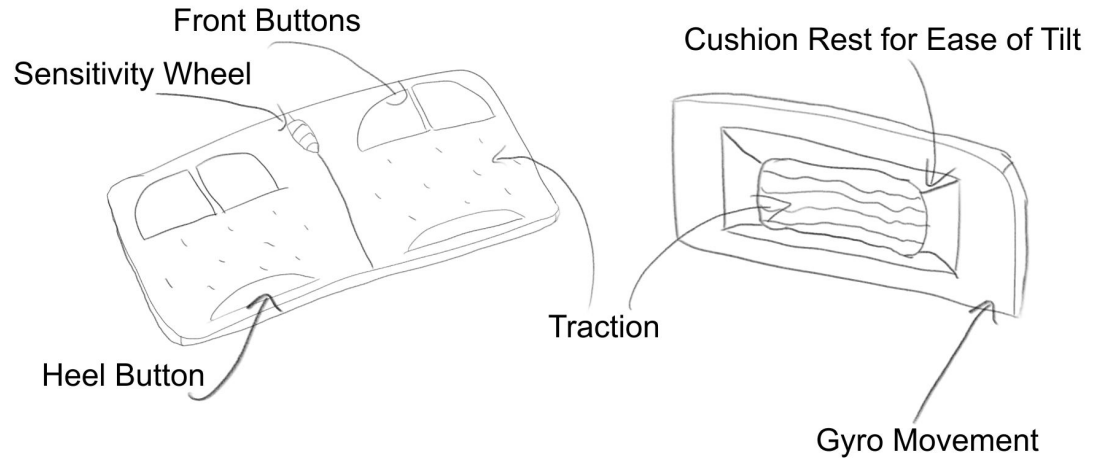
# Original Design

Based on feedback from initial sketches and interviews in assignment 1

Gyro based

Paper Prototype - Motion Board

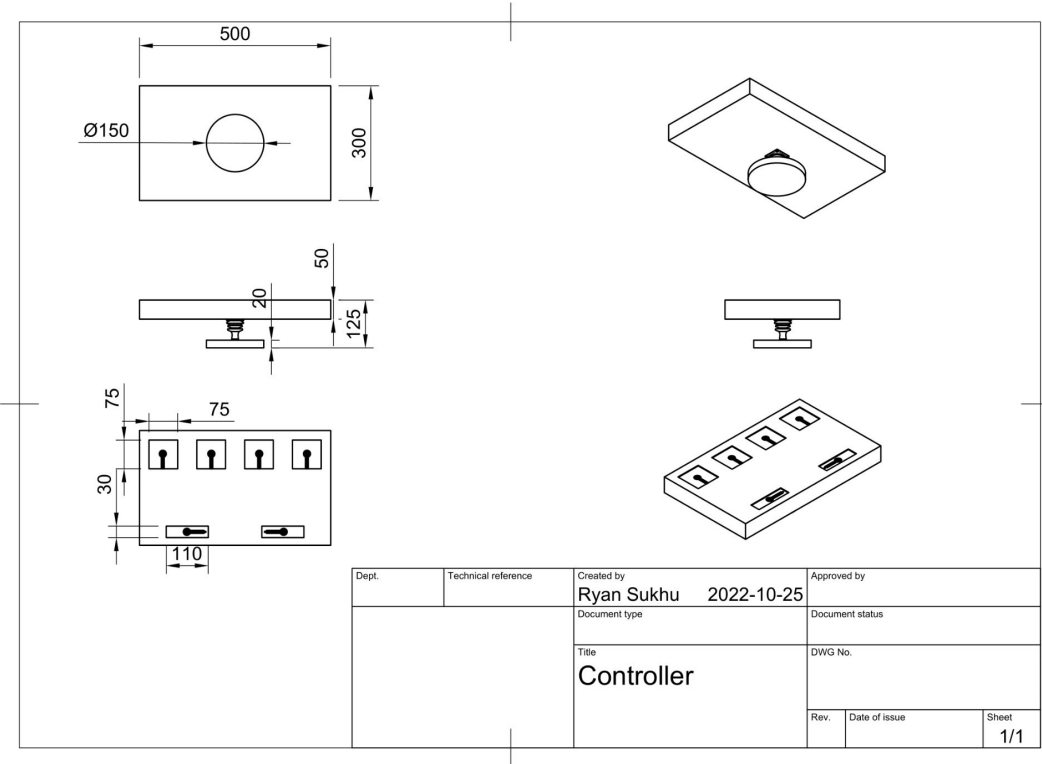
Cushion supporting board



# Assignment 2 Design

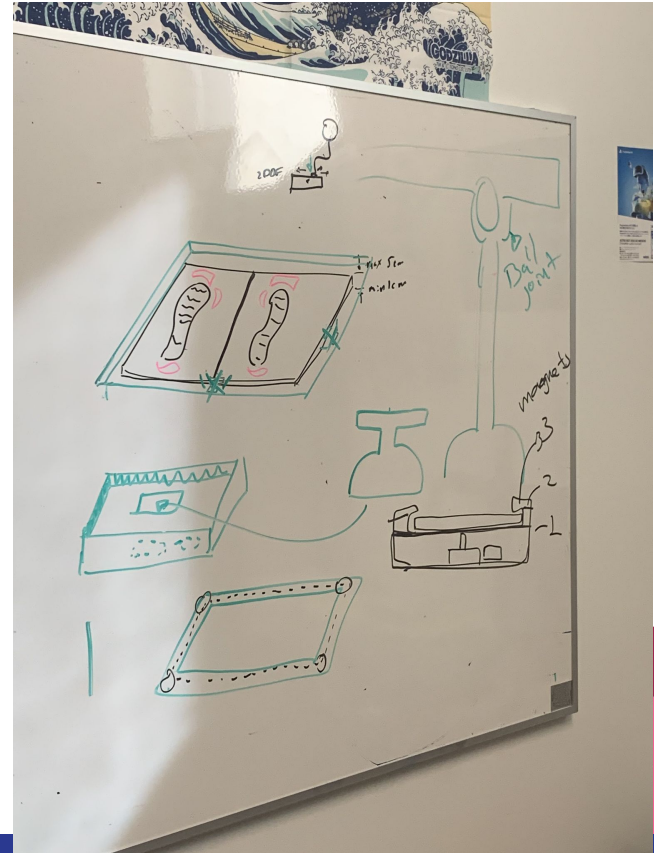
Moved to a 2 degrees of freedom sliding based system instead of gyro.

Removed the cushion and separated the top and bottom boards.



# Considerations before assignment 3

We spoke to Professor Alvaro about some of the challenges with our design and worked with him to rework our idea into a “box within a box idea” that retains the sliding motion from Assignment 2 while having better support, and uses a 3D printed ball joint attachment to control a joystick.



# Current Design

From there we reached our current design.

