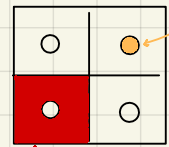
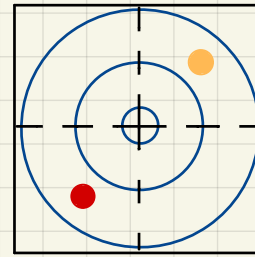


Design 2: Shrunk House

Mapping Feature

Effect: Scans rocks in the house and maps them by outputting scaled button system with circle signifying team 1 and rectangle for team 2.

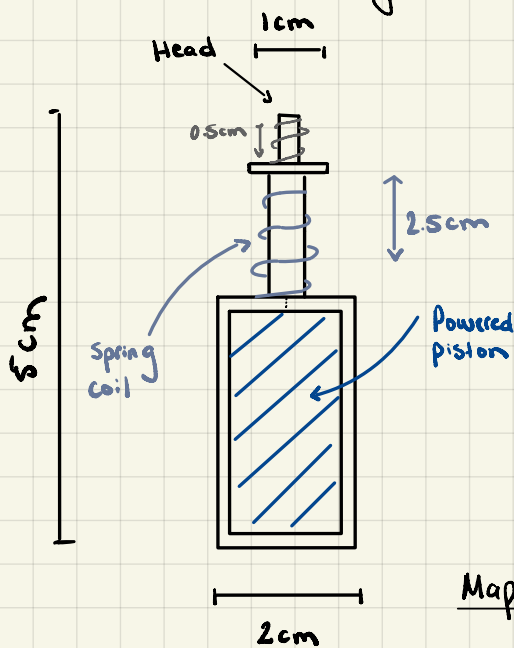
Functionality: Camera scans house and rocks from above and generates array of 1's and 0's. This array indicates if a rock is present in that location on the grid. The pistons then push up the buttons to map for the user.



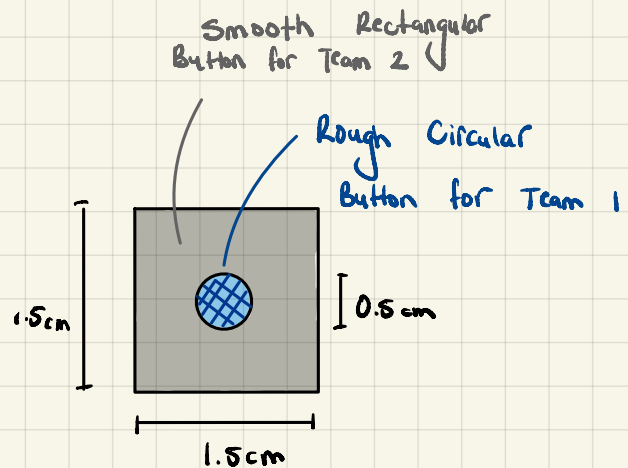
Yellow circle will be activated

Red Rectangle will be activated

Piston Button Diagram

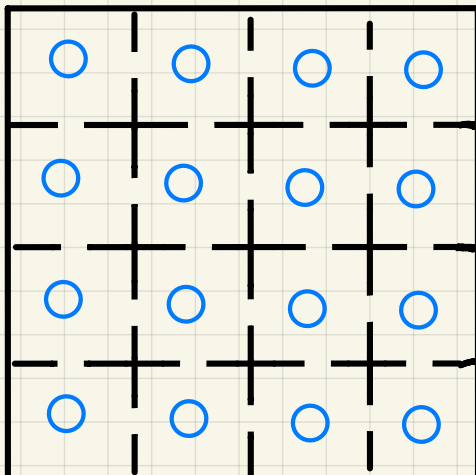


Top View of Button

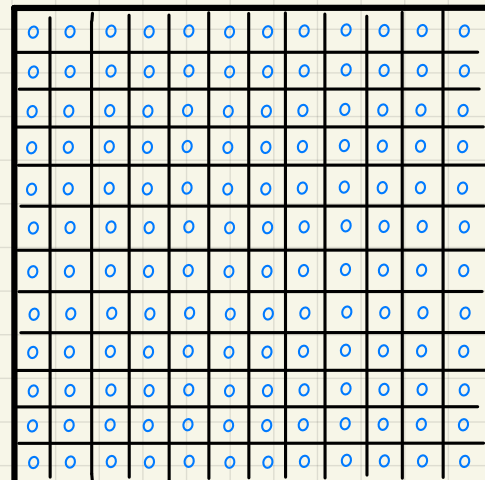


Mapping Output Scale Accuracy

4 x 4 Square Output



12 x 12 Square Output



Accuracy increased by factor of 9