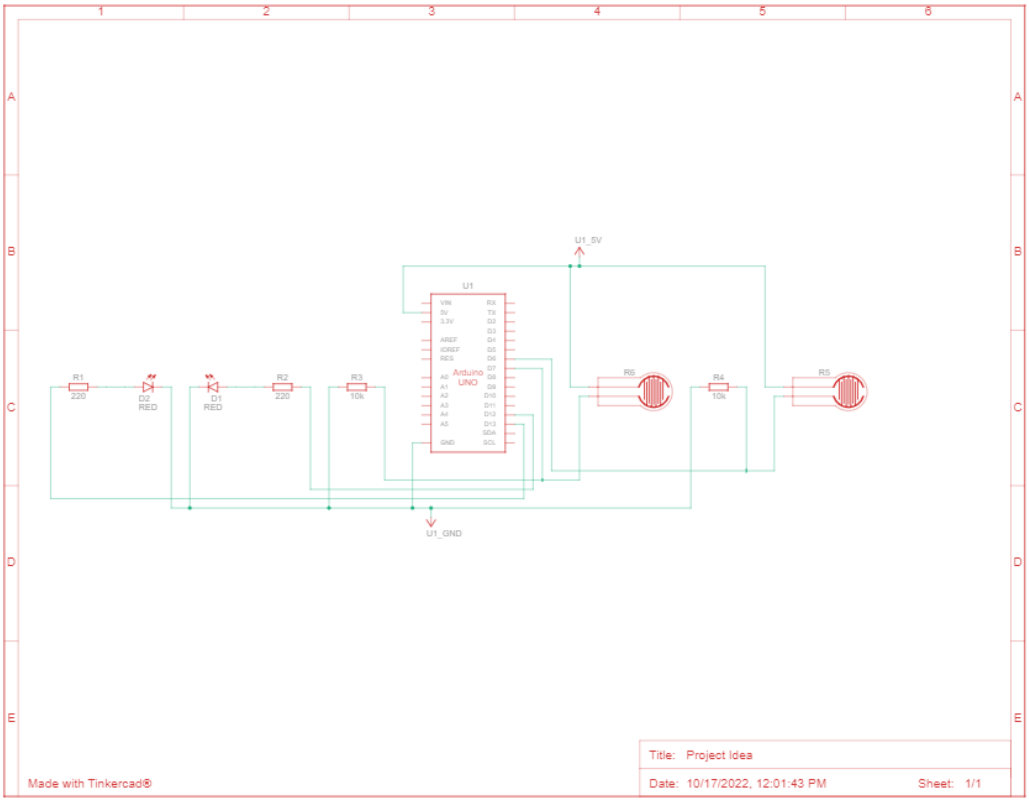
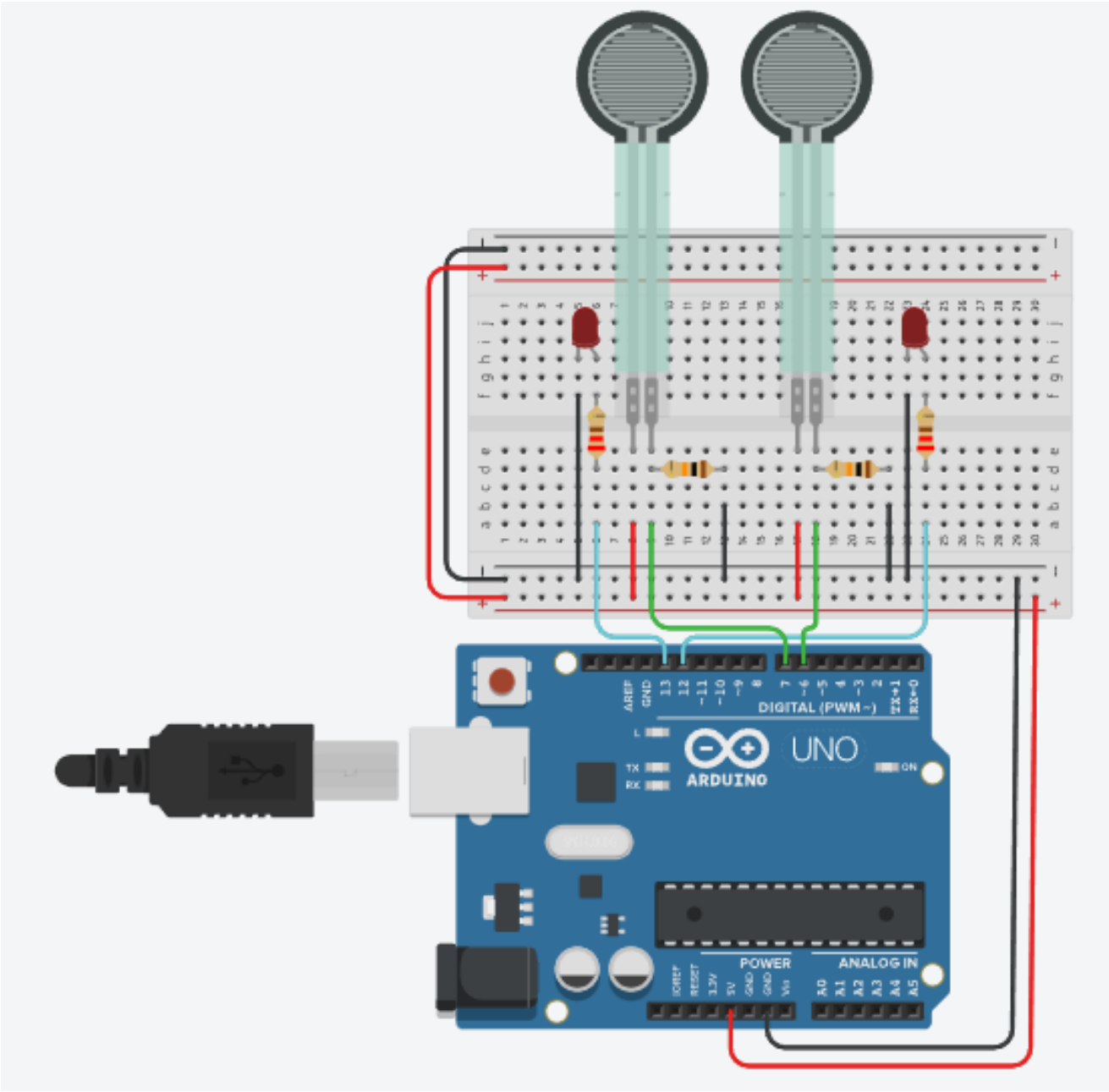
Electronics

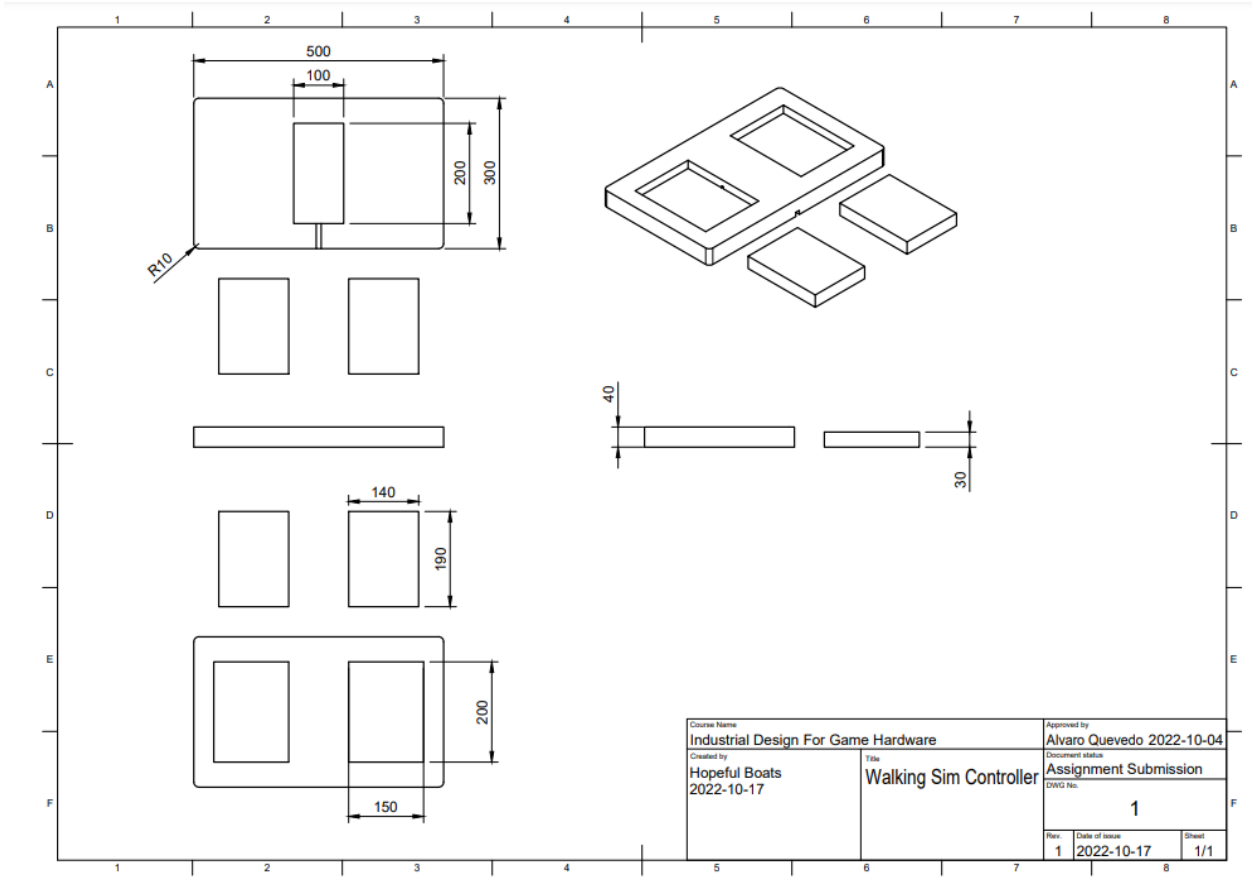
Bill of Materials	Purpose in Project	Where to Obtain	Cost
Elegoo Uno R3	The Uno R3 will be the brains of the project. It will be used to read the players inputs and convey them to the game.	Amazon	$55.99
Wires	These will be used to connect the various components in the project.	Amazon	Comes with Uno Kit
Two Force Sensors	Since our game is a walking simulator, these will be used to detect the amount of force the user is using to step down. With that information we will control the characters walking in the game.	Amazon ForceSensor	$32.36
Resistors	Used to regulate the flow of the electrical current in the circuit.	Amazon	Comes with Uno Kit
Connectors	Used to connect the wires and components	Amazon	Comes with Uno Kit

Schematics



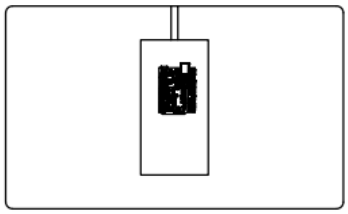

DIGITAL (PWM~)
UNO
ARDUINO
POWER
ANALOG IN

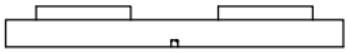
Technical Drawings

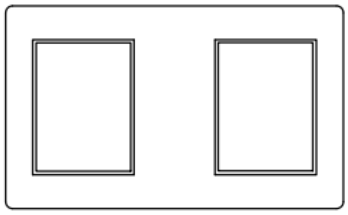


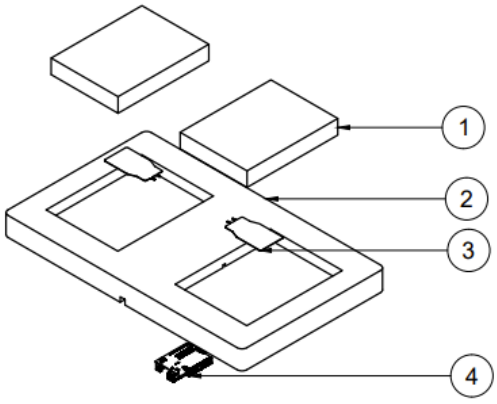
Assembly:

Parts List				
Part	Quantity	Part Name	Description	Material
1	2	Foot Button	Button for foot to step on	Plastic
2	1	Shell	Base of the controller that contains all components	Plastic
3	2	Force Sensor	Captures amount of preassure apllied to foot button	-
4	1	Elegoo Uno R3	Read the players inputs and convey them to them to the game	-









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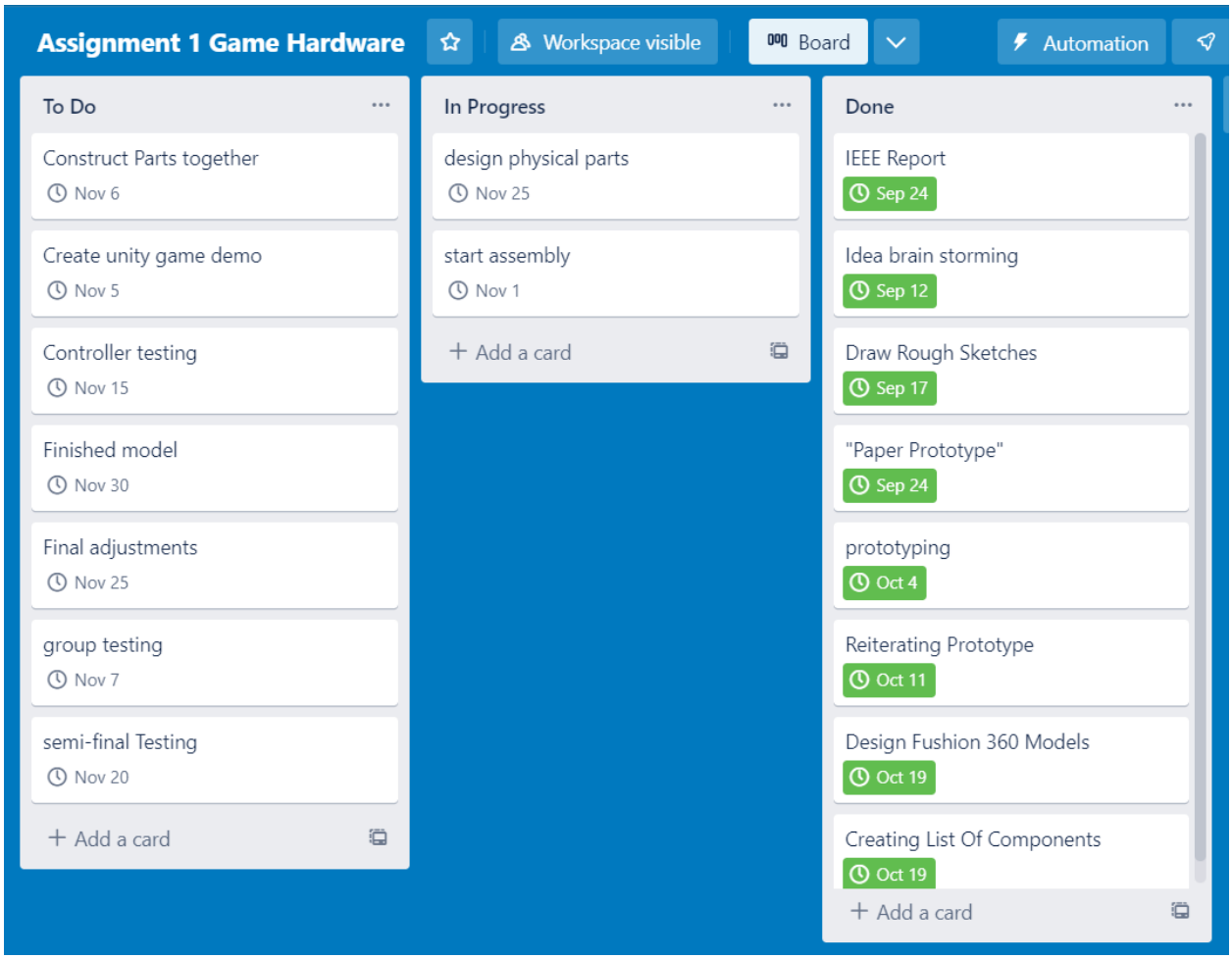

Roles:

Seif: Project Assembler
Mark: Project Programmer
Colin: Project Designer