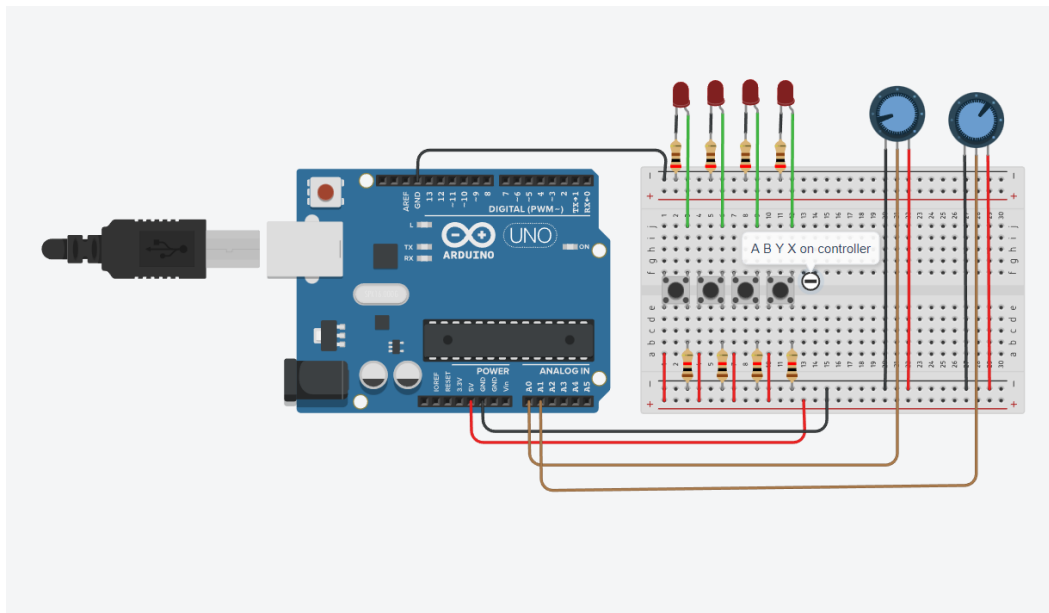
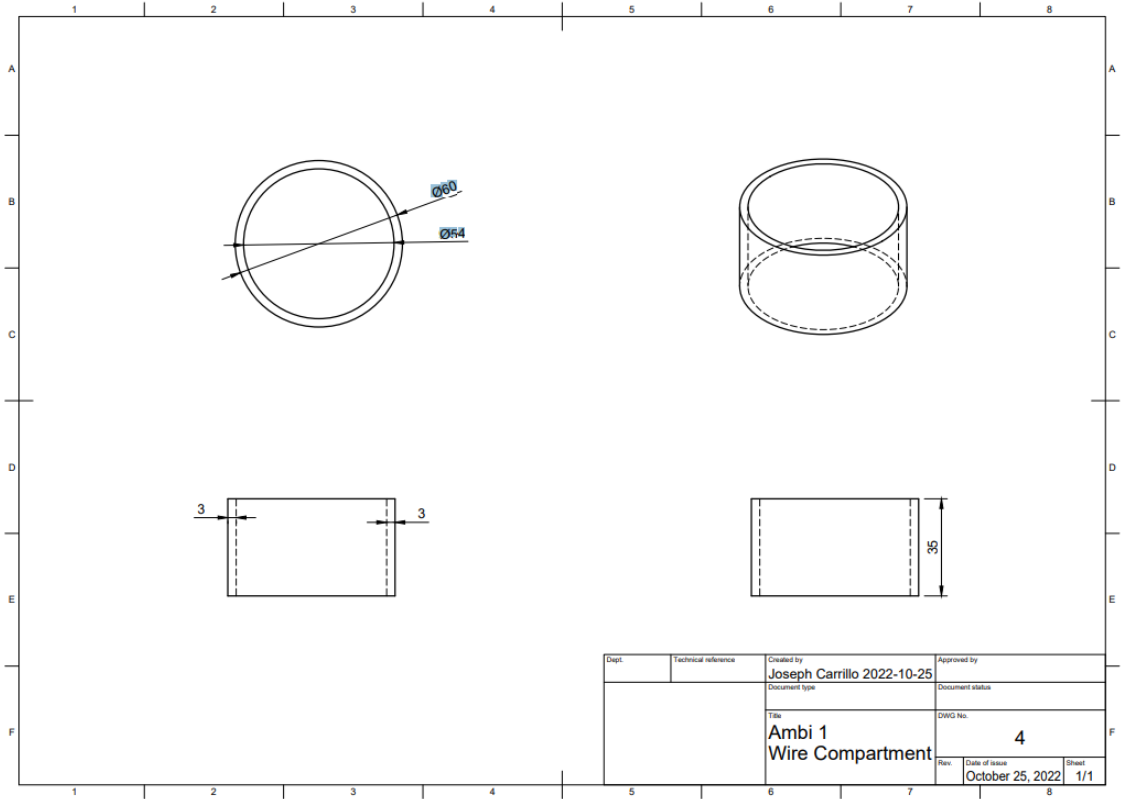
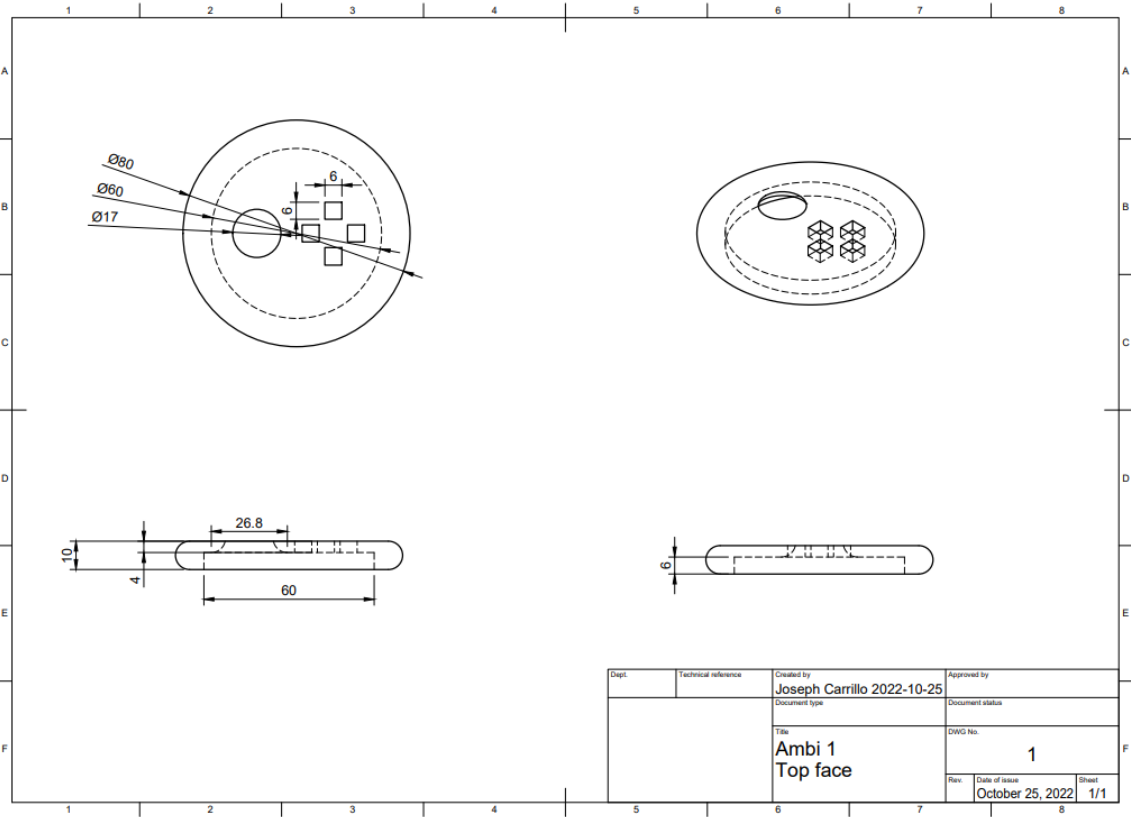


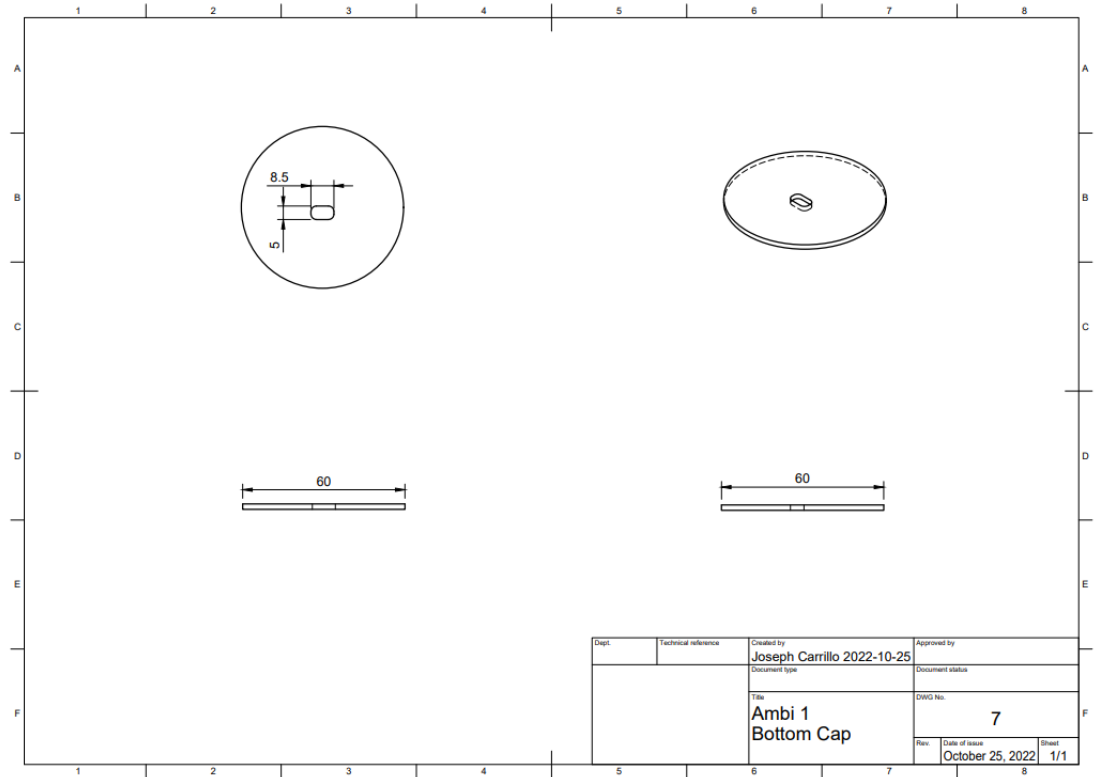
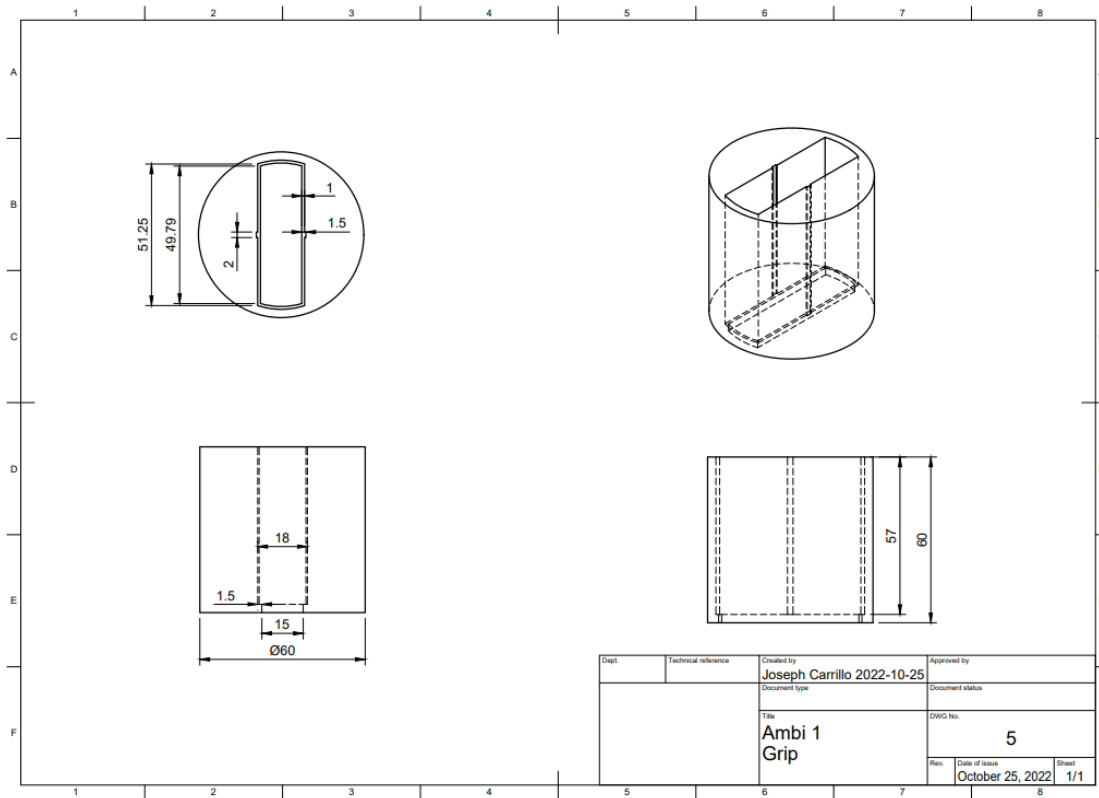
## Electronics.

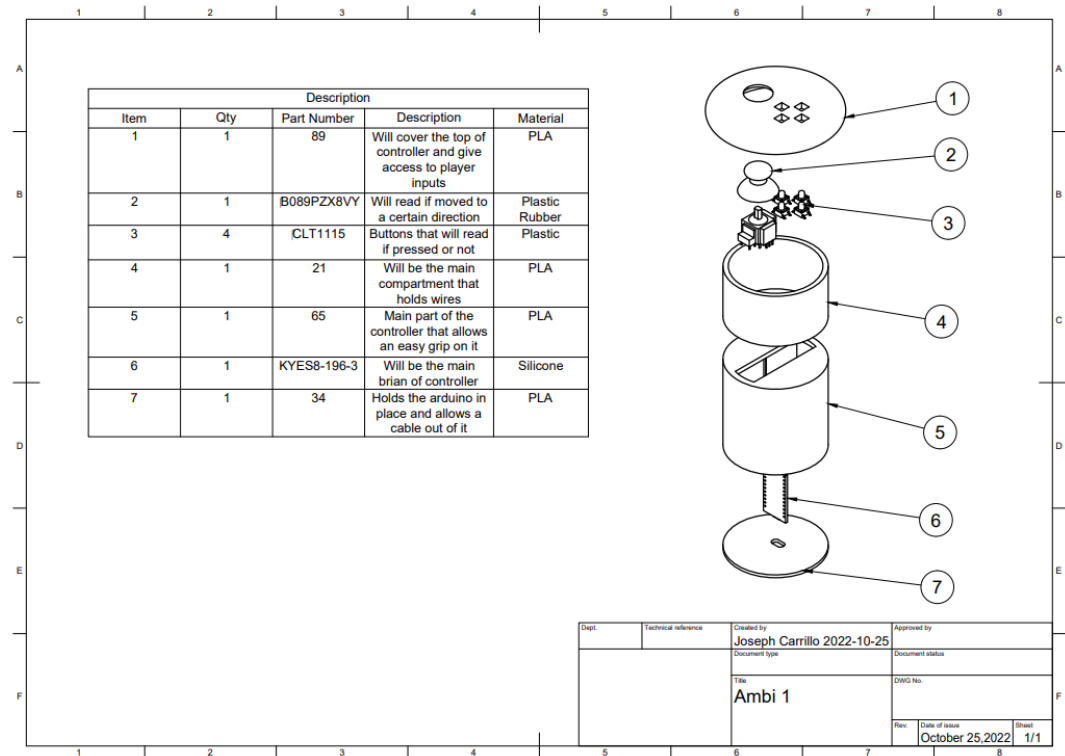
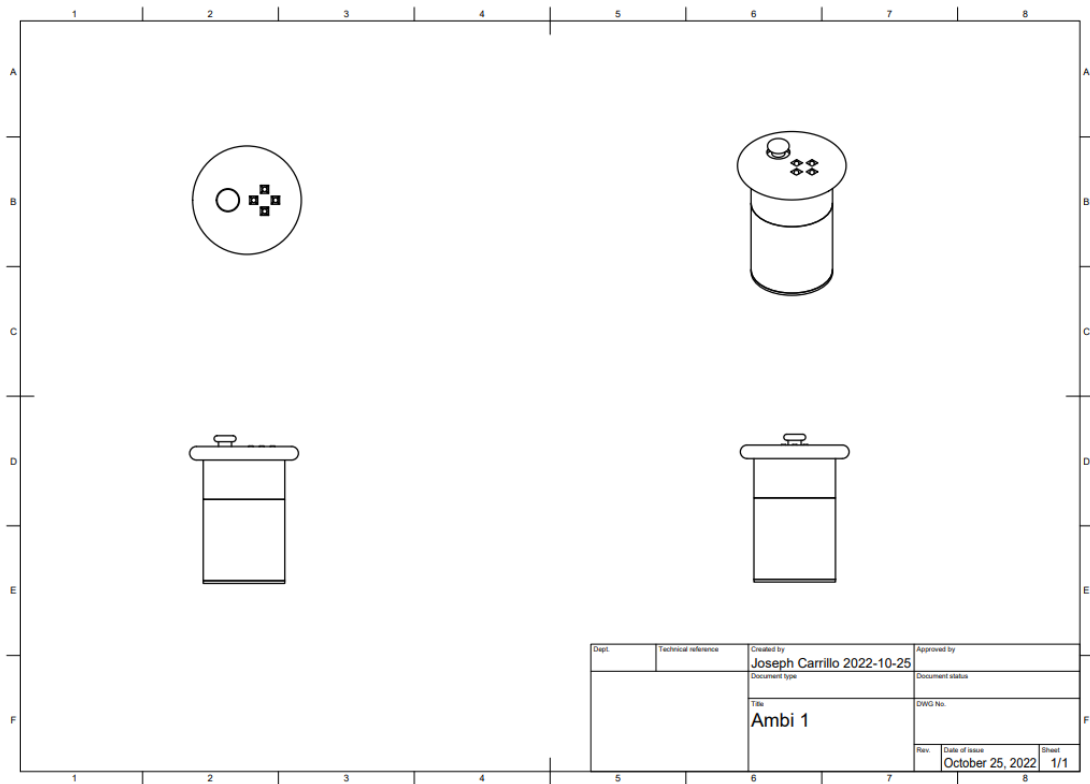
Component	Amount	Price	Role	Supplier
Arduino Pro Micro	x1	\$32.98	Main Microcontroller	<a href="#">Arduino Store</a>
Analog stick	x1	\$6.50	Main movement	<a href="#">Amazon Store</a>
Push Buttons	x1	\$10.99	Main inputs	<a href="#">Amazon Store</a>
USB micro b	x1	\$7.60	Power/Send inputs to computer	<a href="#">Amazon Store</a>
Magnet	x1	\$8.21	Locking mechanism for rotation	<a href="#">Esty</a>
Protoboard	x1	\$1.83	Secure placement of buttons in controller	<a href="#">Retro Amplis</a>



Technical drawings.



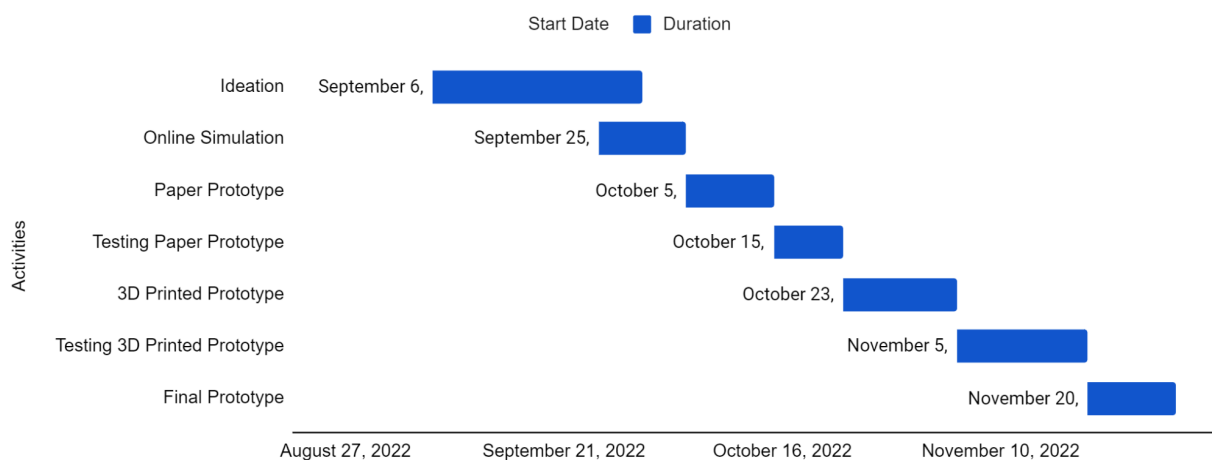




For our cable management the wire management is going to be affected by the wire compartment(Part number 4) as well as the grip(5). The space in the grip is there so wires can connect to the arduino as well as reach our wire compartment without having too much stress on them as they will be moving around constantly from rotating. The wire compartment is a hollow cylinder that exists to have space for not only the buttons and analog stick but also room for wire slack to further reduce the wear and tear on the wire from stretching due to movement.

## Planning.

### Gantt Chart Team Liquid



Alex Chow (Main programmer)- Assisted with working on designing the controller and modeled the entire controller in fusion, also made the Gantt chart.

Joseph Carrillo (Main hardware designer)- Designed the controller and created all technical drawings for the project, as well as completed the tinkerCAD.