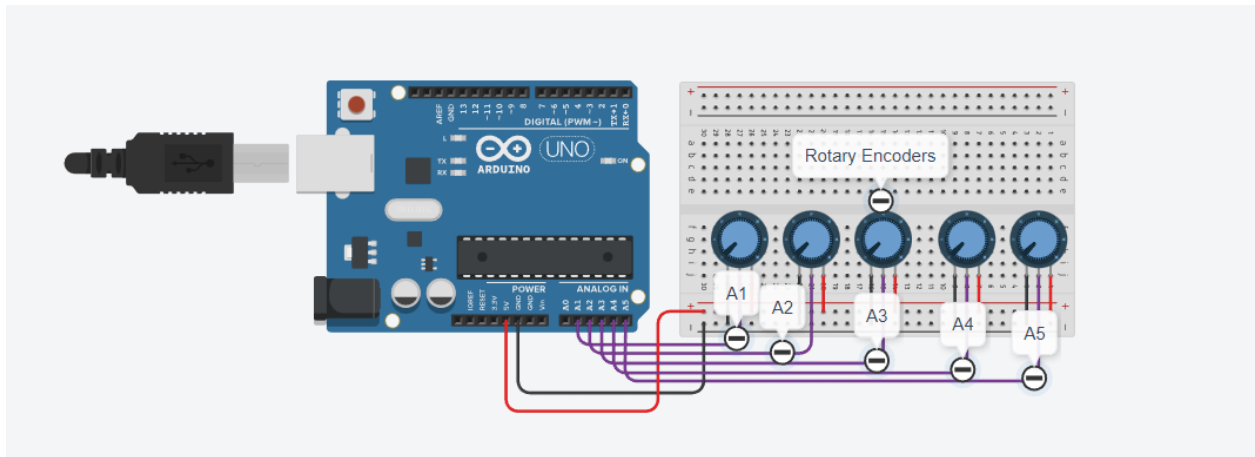


Industrial Design for Game Hardware Assignment #2

Technical Drawings, Circuitry and Prototyping

Circuitry Design

Here is an image depicting our circuitry design for this controller in TinkerCad. The circuitry is quite simple as we require only 5 rotary encoders, an arduino nano and breadboard. This depiction is a close representation to the final product's functionality.



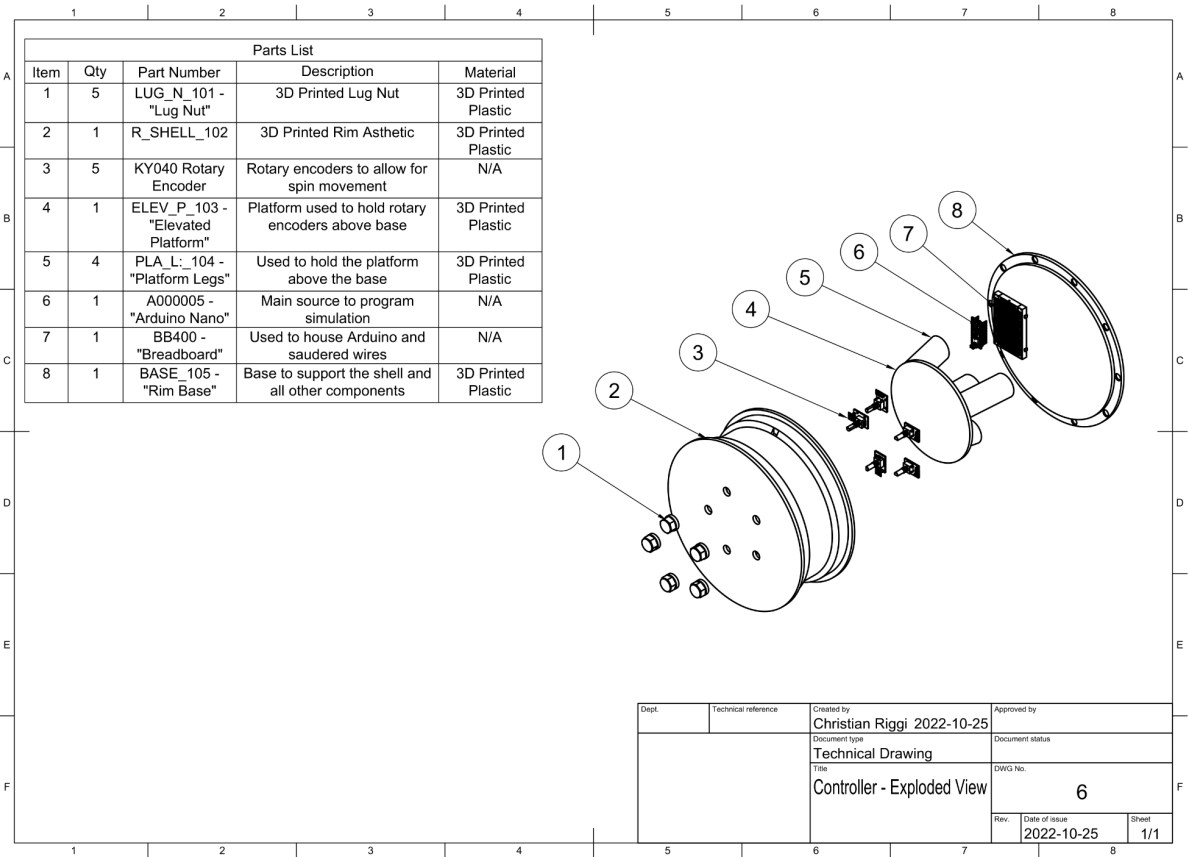
Paper Prototype

Here are photos of the paper prototype showing the approximate size and positioning of the components for the tire peripheral. We included a representation for the lugnuts, rotary encoders and the arduino along with the accompanying slot for the usb port.



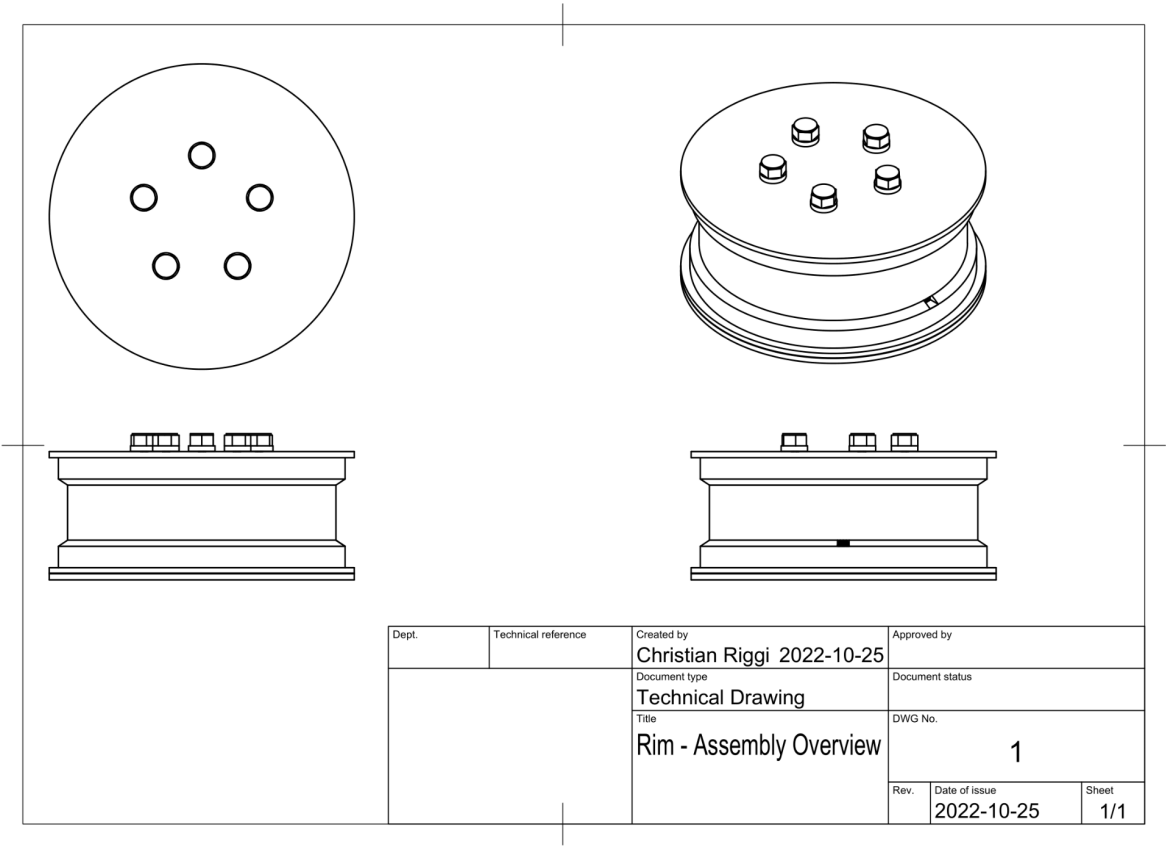
3D Exploded View:

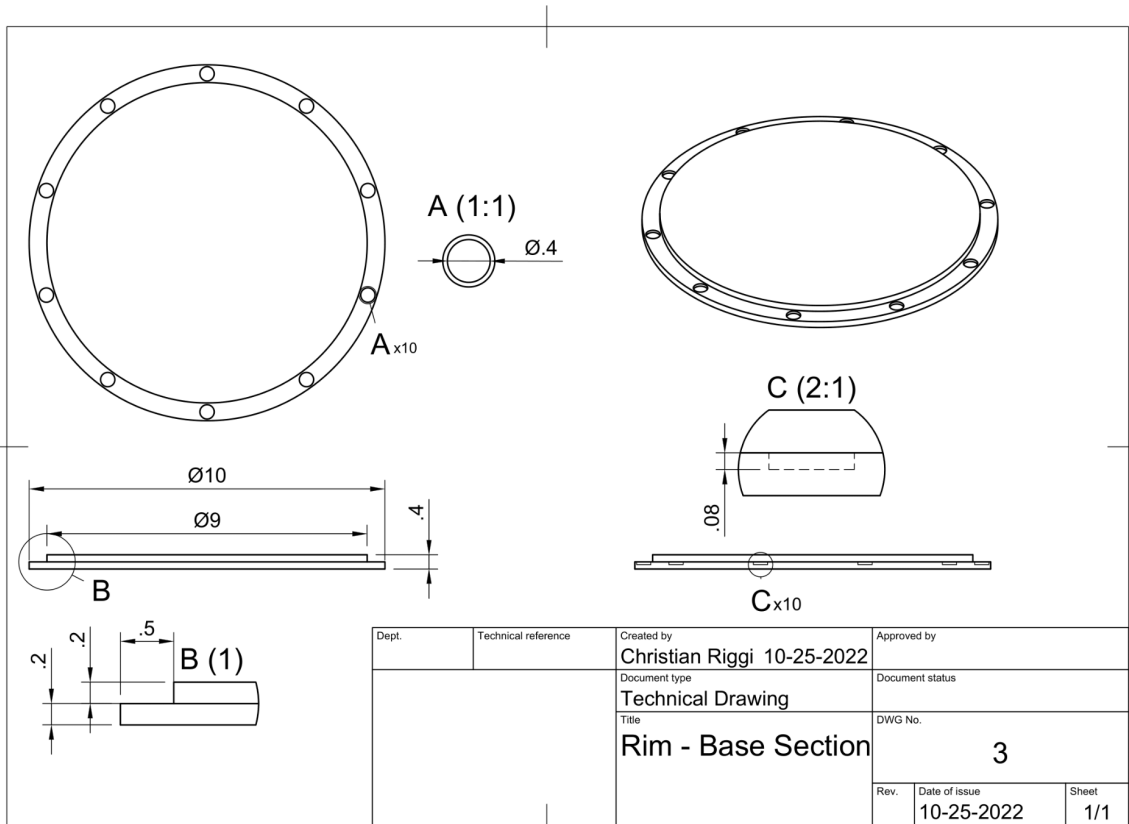
Here is the 3D exploded view along with the parts list from Fusion 360.

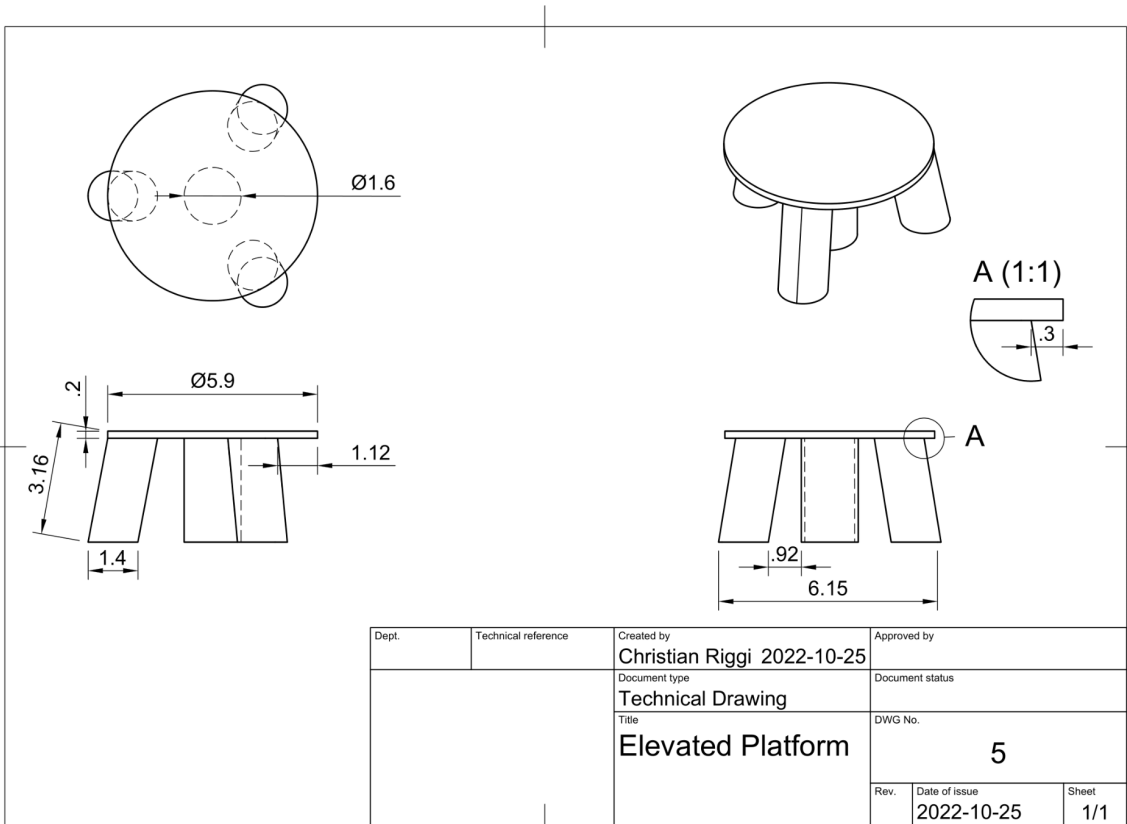


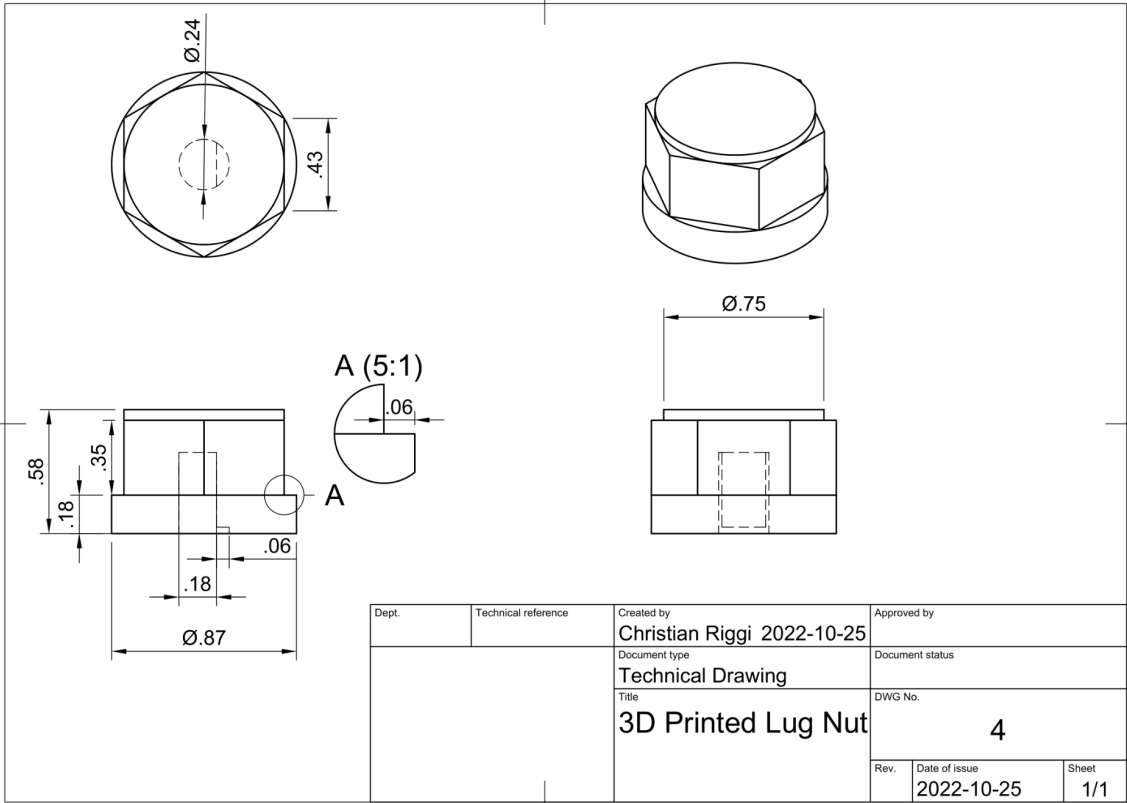
2D Technical Drawings:

Here are 2D technical drawings for the tire peripheral featuring a detailed look into the magnetic base, rotary motor stand, lug nut geometry and overall shape of the tire.









Dept.	Technical reference	Created by Christian Riggi 2022-10-25	Approved by
		Document type Technical Drawing	Document status
		Title 3D Printed Lug Nut	DWG No. 4
		Rev.	Date of issue 2022-10-25
		Sheet 1/1	

