

## Bill of Materials

Part	QTY	Type	Raw Material	Supplier	Material	Construction Tim	Stage	Start Date	End Date	Location	CAD	Manufacture
Outer Shell	1	Manufactured	5in Tube	American Metals	Mild Steel	3 Hours	Completed	9/17/2022	9/18/2022	Mesa Welding Shop	Solidworks	Team
Shell Legs	2	Manufactured	2' x2' 3/8" Plate	American Metals	Mild Steel	2 Hours	Completed	9/17/2022	9/18/2022	Mesa Welding Shop	Solidworks	Team
Pins	24	Manufactured	1/4" Steel Rod 10'	American Metals	Mild Steel	45 Minutes	Completed	9/17/2022	9/18/2022	Mesa Welding Shop	Solidworks	Team
Project Base	1	Manufactured	4'x4' 14 Gauge Plate	American Metals	Mild Steel	2 Hours	Completed	9/17/2022	9/18/2022	Mesa Welding Shop	Solidworks	Team
Base Support	3	Manufactured	2"x 1/4" Bar 10'	American Metals	Mild Steel	30 Minutes	Completed	9/17/2022	9/18/2022	Mesa Welding Shop	Solidworks	Team
Slewing Bearing	1	Manufactured	2' x2' 3/8" Plate	American Metals	Mild Steel	30 Minutes	Completed	9/17/2022	9/18/2022	Machine Shop	Solidworks	Machine Shop
Safety Plate	2	Manufactured	4'x4' 14 Gauge Plate	American Metals	Mild Steel	2 Hours	Completed	9/28/2022	10/14/2022	Nau Machine Shop	Solidworks	Team
Base Bottom Cover	1	Manufactured	4'x4' 14 Gauge Plate	American Metals	Mild Steel	30 Minutes	Completed	9/17/2022	9/18/2022	Mesa Welding Shop	Solidworks	Team
Base Pins	6	Manufactured	3/8" Steel Rod 10'	American Metals	Mild Steel	2 Hours	Completed	9/17/2022	9/18/2022	Mesa Welding Shop	Solidworks	Team
Leaflets	12	Manufactured	Onyx	NAU Idea Lab	Carbon Fiber Reinforced	4 Weeks	Completed	9/12/2022	10/14/2022	NAU Idea Lab	Solidworks	NAU Idea Lab
Screen	1	Purchased	Various	Amazon	Various	4 Hours	Completed	10/14/2022	11/12/2022	Amazon	GrabCad	Nextion
Pillow Block Bushings	2	Purchased	Iron	Amazon	Iron	30 Minutes	Completed	9/28/2022	9/18/2022	Amazon	GrabCad	PGN
Motor Hub Cog	1	Purchased	Steel	Amazon	Steel	15 Min	Completed	9/28/2022	11/12/2022	Amazon	GrabCad	Jeremywell
5/8 Axle	1	Purchased	Steel	BMI Parts	Steel	N/A	Completed	9/28/2022	11/12/2022	BMI Parts	GrabCad	BMI
Cog	3	Purchased	Mild Steel	BMI Parts	Mild Steel	N/A	Completed	9/28/2022	11/12/2022	BMI Parts	GrabCad	BMI
Sprocket Collars	1	Purchased	Aluminum	Amazon	Aluminum	N/A	Completed	9/28/2022	11/12/2022	Amazon	GrabCad	AZSSMUK
Rubber Feet	6	Purchased	Rubber	Amazon	Rubber	2 Hours	Completed	9/28/2022	11/12/2022	Amazon	GrabCad	TOPINSTOCK
Bolts	81	Purchased	Zinc	HomeCo	Zinc	N/A	Completed	9/28/2022	11/12/2022	HomeCo/Order	Solidworks Toolki	HomeCo
Sprocket	2	Purchased	Steel	Amazon	Steel	2 Hours	Completed	9/28/2022	9/18/2022	Amazon	GrabCad	Jeremywell
Pressure Plate	1	Purchased	Rubber	Amazon	Rubber	30min	Completed	10/14/2022	11/12/2022	Amazon	GrabCad	Pololu
Emergency Stop	1	Purchased	Metal/Plastic	Amazon	Metal/Plastic	30min	Completed	10/14/2022	11/12/2022	Amazon	GrabCad	APIELE
Motor Mount	1	Purchased	Steel	Amazon	Steel	2 Hours	Completed	9/28/2022	9/18/2022	Amazon	GrabCad	HobbyUnlimited
#35 Chain	1	Purchased	Steel	Tractor Supply	Steel	2 Hours	Completed	9/28/2022	11/12/2022	Tractor Supply	GrabCad	CountyLine
#25 Chain	1	Purchased	Steel	Amazon	Steel	1 Hour	Completed	10/14/2022	11/12/2022	Amazon	GrabCad	Jeremywell
#25 sprockets	2	Purchased	Steel	Amazon	Steel	N/A	Completed	10/14/2022	11/12/2022	Amazon	GrabCad	Jeremywell