

Spring 2023 Project Plan				
Milestone	Tasks	Description	People	
Poster Day	Combine Information	Gathering information from all previous work	Pawel	
	Future Work	Gather information of work still needed to be completed	Jared	
	Create Poster	Design poster with size specifications in mind	Jared, Robert	
	Review Rubric	Make sure the poster fits the needs of the rubric	Taylor	
	Print Poster	Have TAs print the final poster	Segundo	
	Attend Poster Day	Attend the assigned poster presentation	All	
	Finalize Design	Review Design Requirements	Review the requirements of the design	Taylor
Discuss Problem Areas		Discuss issues with the current design	Jared	
Refine CAD		Remeasure and refine the CAD models	Robert	
Finalizing CAD		Finalizing CAD models to begin prototype 2	Segundo, Pawel	
Rebuild Prototype	Convert CAD to STL	Convert CAD files to STL files for printing	Taylor	
	Print STL Files	3D print the STL files to prepare for building	Segundo, Jared, Robert	
	Assemble Prototype	Assemble the new prototype	Pawel	
Test Prototype	Review Prototype Specifications	Review how the prototype should work	Pawel	
	Ensure Prototype Performs	Make sure the prototype performs as intended	Taylor	
	Make Changes to Prototype	Make changes to anything that does not perform well	Jared	
	Rebuild Prototype	Rebuild the prototype with changes made	Robert	
	Performance Check	Ensure the prototype performs as intended	Segundo	
VDR4	Summarize Previous Work	Summarize work already completed before this point	Pawel	
	Summarize Current Work	Summarize work already completed at this point	Robert	
	Create Powerpoint Presentation	Use information gathered to create a powerpoint presentation	Jared	
	Review Rubric	Make sure powerpoint presentation meets requirements	Segundo	
	Submit VDR4 Powerpoint	Submit VDR4 presentation to Canvas	Taylor	
	Practice Presentation	Practice presenting powerpoint	All	
	Present Presentation	Present Powerpoint to professor	All	
	Update Bill of Materials	Determine Major Components	Make changes to the bill of materials to account for design changes	Pawel, Robert
		Check Vendors	Compare different vendors and their prices to determine the best one	Taylor
Record Changes		Update the original BOM created in Fall 2023	Segundo	
Initial Order		Order the initial list of components and update dates/times/prices	Jared	
Develop Virtual Simulations	Develop Motion Simulation	Create motion simulation in creo to check device movement	Robert	
	Develop Vibration Simulation	Create a vibration simulation in drake to check oscillation patterns	Pawel	
	Develop Friction Simulation	Create a friction simulation in creo between the parts	Taylor	
Machining Parts	CAD Files to Machine Shop	Send CAD files to machine shop	Jared	
	Send Material to Machine Shop	Send material to machine shop to begin machining	Segundo	
	Update Status of Machined Parts	Keep an updated list of finished and in progress parts	Taylor	
Build Physical Prototype	Review CAD Models	Review the CAD models to ensure proper assembly	Jared, Pawel	
	Review Machined Parts	Review machine shop parts to make sure they are machined properly	Robert, Taylor	
	Assemble Physical Prototype	Assemble the first physical prototype	Segundo	
Testing	Run Motion Test	Run motion test to check that the ceramic does not fall off during stops	Pawel	
	Analyze Motion Data	Analyze the data and make changes to the CAD models if needed	Jared, Robert	
	Run Vibration Test	Run vibration test using accelerometer to make sure ceramic can handle the vibrations on the conveyor	Segundo	
	Analyze Vibration Data	Analyze the data and make changes to the CAD models if needed	Jared, Taylor	
	Run Dust Test	Run dust test to ensure that the device can handle the amount of dust at the facility	Taylor	
	Analyze Dust Data	Analyze the data and make changes to the CAD models if needed	Segundo, Pawel	
VDR5	Summarize Previous Work	Summarize previous VDR presentations	Pawel	
	Summarize Current Work	Summarize work already completed at this point	Segundo	
	Create Powerpoint Presentation	Use information gathered to create a powerpoint presentation	Jared	
	Review Rubric	Make sure powerpoint presentation meets requirements	Robert	
	Submit VDR5 Powerpoint	Submit VDR5 presentation to Canvas	Taylor	
	Practice Presentation	Practice presenting powerpoint	All	
	Present Presentation	Present Powerpoint to professor	All	
Finalize Design	Review Previous Testing Analysis	Review the analysis from the previous testing	Taylor, Pawel	
	Discuss Problem Areas	Discuss issues with the current design	Segundo	
	Refine CAD	Remeasure and refine the CAD models	Jared	
	Finalizing CAD	Finalizing CAD models for changes to the physical prototype	Robert	
Build Physical Prototype	Review CAD Models	Review the CAD models to ensure proper assembly	Robert, Taylor	
	Review Machined Parts	Review new machined parts or parts that had to be changed	Pawel, Segundo	
	Change Physical Prototype	Make changes to the second physical prototype	Jared	
Testing	Run Motion Test	Run motion test to check that the ceramic does not fall off during stops	Taylor	
	Analyze Motion Data	Analyze the data and make changes to the CAD models if needed	Pawel, Segundo	
	Run Vibration Test	Run vibration test using accelerometer to make sure ceramic can handle the vibrations on the conveyor	Robert	
	Analyze Vibration Data	Analyze the data and make changes to the CAD models if needed	Jared, Taylor	
	Run Dust Test	Run dust test to ensure that the device can handle the amount of dust at the facility	Segundo	
	Analyze Dust Data	Analyze the data and make changes to the CAD models if needed	Pawel, Robert	
Finalize Evidence Manual	Review All Previous Submissions	Review comments and edits on all previous evidence manual submissions	Pawel, Segundo	
	Make Changes to Evidence Manual	Make changes from the previous review	Jared, Robert	
	Submit Final Evidence Manual	Submit the final evidence manual to canvas	Taylor	
Engineering Design Day	Summarize Previous Work	Summarize work already completed before this point	Pawel	
	Summarize Current Work	Summarize work already completed at this point	Segundo	
	Create Powerpoint Presentation	Use information gathered to create a powerpoint presentation	Jared	
	Review Rubric	Make sure powerpoint presentation meets requirements	Robert	
	Submit VDR6 Powerpoint	Submit VDR6 presentation to Canvas	Taylor	
	Practice Presentation	Practice presenting powerpoint	All	
	Present Presentation	Present Powerpoint to professor	All	
	Prepare Poster	Compile information for poster and edit previous poster	Pawel, Taylor	
	Practice Elevator Pitch	Practice presenting elevator pitches for poster	All	
	Present Poster	Present poster to audience in attendance	All	
	Evaluate Other Poster	Review other groups posters and ask any questions	All	
	Watch Other Presentations	Watch other groups present their project and ask any questions	All	
	Network With Industry Professionals	Connect with industry professionals and get information about being in the industry	All	
	Finals	Study for Finals	Prepare for any finals that are needed to be taken	All
Take Finals		Pass finals	All	
Graduation	Prepare Cap and Gown	Make sure cap and gown are ready for graduation day	All	
	Graduate on May 6, 2023	Attend graduation	All	

