Task

Date:February 26,2021	
Attendees:	
Joshua	
Grant	
Dorian	
Our Objective	
Talk about individual sampler stand ideas, rate each stand.	design ideas. Reach conclusion of best idea sampler
Important Deadlines	
Drawing must be summited in Overall-view POC by N	Monday.
Project Update	
Going with Hydraulic Rotational Base idea for sample	er stand.
Roadblocks	
Was unable to speak with Garrett and Christian abou	ut their design today
Next Stone	
Next Steps	
Complete this chart so that everyone is aware of whi	at they are doing and have initialed gareement to it

**Completion Date** 

Person to complete

Initials

Wire stepping motor, Submit individual design work on rotational base	Mar.2,2021	Christian	C.G
Submit individual design , Submit Stepping motor	Mar.3,2021	Garrett	G.M
Record zoom video on Youtube	Feb 27. 2021	Grant	G.E
Record meeting on Meeting note, test Hydraulic system, work on Sampler stand POC	Mar. 1 2021	Dorian	D.L
Finish, Design Matrix, submit Overall POC	Mar.16 2021	Joshua	J.H

### **Signatures of Attendees**

Dorian Lewis	Dorian Lowis	
(print name)	(signature)	
_Grant Eyer	Grant Eyer	
(print name)	(signature)	
Joshua Hagan		
(print name)	(signature)	
Garrett Matheny	Garrett Matheny	
(print name)	(signature)	

Christian Gratz	Christian Gratz	
(print name)	(signature)	
(print name)	(signature)	

Date: _March 3, 2021	
Attendees:	
Grant Eyer	
Christian Gratz	
Garrett Matheny	
Our Objective	
During this meeting, we discussed general dimensional the rotating base design and its mechanisms.	ons for the overall design, and we further discussed
Important Deadlines	
Sampler Stand POC and Rotational Base POC is due	March 8, 2021 (Dorian and Christian).
Pipette Squeeze POC, Vision System POC, and Cont Garrett, and Grant).	rol Code POC are due on March 19,2021 (Joshua,
Project Update	
Christian Gratz: Have generated several designs for calculations, dimensioning. Need to fill out rotation	

Garrett Matheny: Currently investigating different colored backgrounds for vision system.

Grant Eyer: I have generated a basic graphical user interface for design. I will be waiting on the code for my other members to come in.

Dorian Lewis: I have generated a design for the sampler stand; I am looking for the proper materials to use for the stand and need to perform center of mass calculations.

Joshua Hagan: I have begun looking into designing the pipette squeezer.

#### **Roadblocks**

Christian had problems with understanding exactly how to line up the rotational base with the sampler stand. He needs to hear from Dorian in this regard, as Dorian is mainly responsible for sampler stand. The rest of the team will look over the designs and calculations for the rotational base and sampler stand to ensure the designs make sense.

#### **Next Steps**

Complete this chart so that everyone is aware of what they are doing and have initialed agreement to it.

Task	<b>Completion Date</b>	Person to complete	Initials
Add hours to Cost Tracking	No strict due	Everybody	
spreadsheet as each individual works	date, just fill out		
on subsystem.	as project		
	progresses		
Create decision matrix for pipette	March 10,2021	Joshua	J.H.
squeezer, and think about ideas for			
pipette squeezing mechanism.			
Turn in Sampler Stand POC	March 7, 2021	Dorian	D.L
Turn in Rotational Base POC	March 7, 2021	Christian	C.G.
Vision system background and camera	March 10,2021	Garrett	G.M.
view need to be found.			
Think about design matrix criteria			
Think about control code POC,	March 10,2021	Grant	G.E
generate design matrix for control			
code.			

### **Signatures of Attendees**

_Grant Eyer	Grant Eyer
(print name)	(signature)
_Garrett Matheny	Garrett Matheny
(print name)	(signature)
Dorian Lewis	Dorian Lowis
(print name)	(signature)
oshua Hagan	Joshua Hagan
print name)	(signature)
ChristianGratz	Christian Gratz
(print name)	(signature)
print name)	(signature

Date: 3/10/2021

#### Attendees:

Dorian Lewis	Garrett Matheny
Christian Gratz	Grant Eyer
Josh Hagan	

#### **Our Objective**

Further consider potential designs for the rotational base and sampler stand while also starting the initial design for the vision system, pipette squeeze, and control code.

#### **Important Deadlines**

Sampler Stand Peer review: March 18

Rotational Base Peer review: March 18

Pipette Squeeze POC: March 19

Vision System POC: March 19

Control Code POC: March 19

#### **Projct Update**

Grant: Determining the best design for the gui code and is refining and breaking down ideas to ensure the correct design is chosen. Working on POC for Control Code.

Christian: Working with Dorian to determine the best option for meshing the rotational base and sampler stand

Garrett: Determining the best option for mounting the vision system and working on POC for vison system.

Dorian: Working with Christian to determine best option for meshing the rotating base with sampler stand and will be working on Sampler stand peer review. e

Joshua: Working on POC for pipette squeeze.

#### **Roadblocks**

Garrett came in to a road block with determining the best way to model the decision matrix for choosing the colors for the background of the vison system. We used prior decision matrix's to as a template.

#### **Next Steps**

Task	<b>Completion Date</b>	Person(s) to complete	Initials
Finish peer reviews for sampler stand and rotational base	March 18	Christian and Dorian	C.G D.L
Finish Proof of Concept for pipette squeezer	March 19	Joshua Hagan	J.H
Finish Proof of Concept for vision system	March 19	Garrett Matheny	G.M
Finish Proof of Concept for vision system	March 19	Grant Eyer	G.E.

	tures		

Grant Ever	Grant Ever
Grant Ever	Grant Eyer

(print name)	(signature)
Joshua Hagan	Joshua Hagan
(print name)	(signature)
Christian Gratz	Christian Gratz
(print name)	(signature)
Garrett Matheny	
(print name)	(signature)
Dorian Lewis	
(print name)	(signature)
(print name)	 (signature)

Date: 03/31/21

#### Attendees:

Garrett Matheny	Grant Eyer
Joshua Hagan	Dorian Lewis
Christian Gratz	

#### **Our Objective**

Give updates about sampler stand gear diameter.

Updates excel sheet with hours worked and cost of materials.

Get an idea of how to connect sampler stand and rotational base.

Double check if sampler stand height will work.

#### **Important Deadlines**

Grant, Joshua, and Garrett: Peer reviews on April 6<sup>th</sup>

Dorian and Christian: Combine sampler stand and rotational base by next Monday.

Garrett: Have a picture with pipet and sediment by next Monday.

#### **Project Update**

Grant Eyer: Has Start/Stop Design complete with loading bar.

Joshua Hagan: Has 3D model of pipet holder and squeezer

Garrett Matheny: Has control code to where it will read an image and draw lines at the sediment and

pipet.

Christian Gratz: Has rotational base prototype created.

Dorian Lewis: Has sampler stand prototype created.

#### Roadblocks

Figuring out how to make the motor turn faster.

#### **Next Steps**

Task	<b>Completion Date</b>	Person to complete	Initials
Peer Reviews	April 6th	Grant, Joshua, Garrett	GE, JH, GM
Connect Sampler Stand and Rotational Base	April 5th	Dorian and Christian	DL, CG
Have a picture of the pipet and sediment	April 6th	Garrett	GM
Figure out sampler stand gear diameter	April 6th	Dorian	DL

#### **Signatures of Attendees**

Garrett Matheny Garrett Matheny

(print name) (signature)

**Grant Eyer** (print name) **Grant Eyer** (signature)

Joshua Hagan Joshua Hagan

(print name) (signature)

Dorian Lewis Dorian Lewis

(print name) (signature)

Christian Gratz Christian Gratz

(print name) (signature)