

The Agitators

Milestone 1

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Project Charter

19 January 2026

Senior Design I



FLORIDA STATE UNIVERSITY

TABLE OF CONTENTS

1 – Project Scope.....	3
2 – Team Roles.....	3
3 – Communication.....	3
4 – Dress Code.....	3
5 – Attendance Policy.....	3
6 – Statement of Acknowledgement.....	4

The Project Charter outlines the scope of the project and establishes leaders for various roles throughout the course of the project.

1 – PROJECT SCOPE

For a material to be fed through a hopper, it often needs to be agitated with a rotating apparatus so that it will move as desired. The objective of this project is to design a test apparatus that can collect data regarding the torque required to “agitate” various materials. Upon collection of data, a predictive model will be developed. By developing a predictive model, necessary agitator components can be specified using material properties so that testing does not have to occur for every material.

2 – TEAM ROLES

Team Lead	Design Lead	Mechatronics Lead	Materials Lead	Data Integration Lead
Robert Copsey	Logan Smith	Angel Alvarado	Kc Davis	Noah Owens

3 – COMMUNICATION

Communication will have multiple components. A group chat including the team will be used for brainstorming as well as planning meeting dates/times. Email communication will be used for all professional communication with the sponsor as well as with Dr. Capehart. This communication will also be used in order to transfer files needed for the project. Google Drive will also be utilized for file sharing and project organization. Both phone calls and in person meetings will be used to work on any group aspects of the project as well as for basic back and forth of ideas and information.

4 – DRESS CODE

In the senior design lab it is required to wear closed-toed shoes. Besides that, dress code is casual/business casual

In the workshop and at Merrick facilities close toed shoes and removal of jewelry is required as well as being dressed in workwear and proper PPE if required. Additional requirements will be provided by Merrick.

During any and all presentations it is strictly business attire.

Any and all meetings outside of these environments there are no specific requirements.

5 – ATTENDANCE POLICY

All team members must be present for any and all meeting unless there is an extenuating circumstance which has discussed with the team beforehand. It is required that all team members are present at the weekly class meet time unless otherwise specified and approved by Dr Capehart.

6 – STATEMENT OF ACKNOWLEDGEMENT

I HAVE READ AND UNDERSTAND THIS DOCUMENT IN FULL AND UNDERSTAND THAT IF I HAVE ANY EXTENUATING CIRCUMSTANCES, I WILL MAKE THE TEAM AWARE AS SOON AS POSSIBLE.

Name	Date
Kace Davis	1/19/2026
Noah Owens	1/19/2026
Logan Smith	1/19/2026
Robert Copsey	1/19/2026
Angel Alvarado	1/19/2026