

Course Week	Task	Notes	Date
Week 1 01/04 - 01/10			
1	Spring Semester Initial Meeting	First meeting post-christmas break.	6-Jan
	Full Size Prototype	Print the full size prototype.	6-Jan
	Gas Blast Integration	Integrate the gas blast system into the prototype.	7-Jan
	Bi-Weekly Team 501 and 502 Meeting	1st meeting back from break to ensure both teams scheduling for the semester is on track and discuss project's progression.	7-Jan
	Code Update 1	Begin code for gas blast, drill motor, and linear actuator operation.	7-Jan
	Sponsor Meeting	First sponsor meeting in the Spring to establish expectations and schedule.	7-Jan
	Week 1 Lab Cleaning	Clean weekly assigned section of Senior Design Lab.	9-Jan
Week 2 01/11 - 01/17			
2	Start VDR4	Initial VDR4 development	12-Jan
	Finalize Component List	Complete list for all required components	13-Jan
	Absolute Positioning	Finalize method for determining absolute positioning of inner rotating body.	13-Jan
	Drill Motor/Linear Actuator Integration	Integrate the drill motor and linear actuator into the prototype.	14-Jan
	Current Sensor Operation	Install current sensors to motors to monitor current and prevent overheating in space.	14-Jan
	Code Update 2	Finalize code for drill motor and linear actuator.	14-Jan
	Apply for Graduation	Apply for graduation within application window ending Jan 25	14-Jan
	Week 2 Lab Cleaning	Clean weekly assigned section of Senior Design Lab.	16-Jan
Week 3 01/18 - 01/24			
3	Sponsor Meeting	Second sponsor meeting.	21-Jan
	Finalize CAD Model	At this point, CAD model should be complete,	21-Jan
	Code Update 3	Finalize code for gas blast system.	22-Jan
	Bi-Weekly Team 501 and 502 Meeting	Discuss CAD parts and ensure final designs are compatible. Review each teams VDR4 for improvements.	22-Jan
	VDR4 Draft	VDR4 final changes and begin practicing for VDR4 Presentation	22-Jan

	Week 3 Lab Cleaning	Clean weekly assigned section of Senior Design Lab.	23-Jan
Week 4 01/25 - 01/31			
4	Machine CAD parts	Send CAD and materials to machine shop to be manufactured.	26-Jan
	Code Update 4	Integrate previous subsystems into master algorithm.	28-Jan
	Flap Integration	Integrate flaps into assembly	29-Jan
	VDR4 Final	VDR4 ready to present on initial design phase and early prototyping with CAD supporting a fully functioning exhibit in the future.	30-Jan
	Week 4 Lab Cleaning	Clean weekly assigned section of Senior Design Lab.	30-Jan
Week 5 02/01 - 02/07			
5	Start VDR5	Initial VDR5 development	2-Feb
	Code Update 5	Develop code to release cache.	4-Feb
	Bi-Weekly Team 501 and 502 Meeting	Discuss VDR5 development. Ensure both teams are on same page and discuss progress with coding implementation.	4-Feb
	Sponsor Meeting	Third sponsor meeting.	4-Feb
	Week 5 Lab Cleaning	Clean weekly assigned section of Senior Design Lab.	6-Feb
Week 6 02/08 - 02/14			
6	Engineering Job and Internship Fair	Event for organizations to scout out talent within engineering fields.	10-Feb
	Code Update 6	Develop control algorithm to monitor current outputs and create failsafe to ensure safe motor operation.	11-Feb
	VDR5 Draft	VDR5 final changes and begin practicing for presentation	12-Feb
	Week 6 Lab Cleaning	Clean weekly assigned section of Senior Design Lab.	13-Feb
Week 7 - Spring Break (No Class) 02/15 - 02/21			
7	Sponsor Meeting	Fourth sponsor meeting	18-Feb
	Code Update 7	Final Testing of Code	19-Feb
	Bi-Weekly Team 501 and 502 Meeting	Begin preliminary testing with T502 for sample transfer. Discuss updates for the week and plan next meeting.	19-Feb
	Week 7 Lab Cleaning	Clean weekly assigned section of Senior Design Lab.	20-Feb

Week 8			
02/22 - 02/28			
8	VDR5 Final	VDR5 ready to present on final modeled design overview and budget spent	25-Feb
	Rehearse VDR5	Initial VDR5 rehearsal	25-Feb
	Preliminary Integration	Assemble all components on body, integrate code, and test. This is a good time to identify issues and troubleshoot.	26-Feb
	Week 8 Lab Cleaning	Clean weekly assigned section of Senior Design Lab.	27-Feb
Week 9			
03/01 - 03/07			
9	Start VDR6	Initial VDR6 development	1-Mar
	Sponsor Meeting	Fifth sponsor meeting	3-Mar
	Bi-Weekly Team 501 and 502 Meeting	Meet with T502 to discuss integration, testing, and update progress on VDR.	3-Mar
	Integration and Testing	Begin integrating final hardware, software, and electrical components with prototype.	4-Mar
	Week 9 Lab Cleaning	Clean weekly assigned section of Senior Design Lab.	5-Mar
Week 10			
03/08 - 03/14			
10	Final Integration and Testing	Finalize integrate hardware, software, and electrical components with prototype.	9-Mar
	VDR6 Continuation Work	Continue to work on VDR6, including relevant design information and iteration changes. The VDR should be nearing completion around this point.	10-Mar
	Week 10 Lab Cleaning	Clean weekly assigned section of Senior Design Lab.	13-Mar
Week 11			
03/15 - 03/21			
11	Sponsor Meeting	Last sponsor meeting before presenting final project.	18-Mar
	Bi-Weekly Team 501 and 502 Meeting	Meeting with T502 to discuss VDR, design, and clear up any questions before presentations.	19-Mar
	VDR6 Draft	VDR6 final changes and begin practicing for presentation.	19-Mar
	Week 11 Lab Cleaning	Clean weekly assigned section of Senior Design Lab.	20-Mar
	Assembly of Final Prototype	Final prototype assembled and functioning, begin testing under different environments.	20-Mar
Week 12			
03/22 - 03/28			

12	VDR6 Final	VDR6 ready to present on in-depth design iterations and in-depth testing data and analysis.	25-Mar
	Week 12 Lab Cleaning	Clean weekly assigned section of Senior Design Lab.	27-Mar
	Documentation and Tutorial Development	Final documentation and tutorials developed with troubleshooting information and FAQ's	27-Mar
Week 13 03/29 - 04/04			
13	Rehearse Presentation	Run through presentation, addressing potential questions and concerns.	1-Apr
	Bi-Weekly Team 501 and 502 Meeting	Rehearse final project with collaboration team to ensure consistent information and proper discussion of concepts and designs.	2-Apr
	Engineering Design Day	Showcase final project	3-Apr
Week 17 04/26 - 05/02			
17	Final Exam Week Starts	Final exams scheduled Monday through Friday	27-Apr
	FSU-FAMU COE Graduation	Graduate (Some of us).	1-May