Spring Project Plan

Team 505: Stepper Motor Lifecycle Fixture

Sponsor: Danfoss Turbocor

Team Members: Albert Auer, Brad Andrews, Chaney Bushman, Joseph Garvie, Mason Herbet

Project Tasks	**Project Timeline**														
	6-Jan	13-Jan	20-Jan	27-Jan	3-Feb	10-Feb	17-Feb	24-Feb	3-Mar	10-Mar	17-Mar	24-Mar	31-Mar	7-Apr	14-Apr
Prototype Design									X						
Complete Operation Code Diagram	X														
Finalize and Order Materials	X														
Stainless Hardware Expected Date			X												
Remainder of Parts Expected Date			X												
Prototype: Frame					X										
Machine Aluminium Frame	X														
Assemble Hardware Components				X											
Attach Hardware to Frame				X											
Evaluate Test Performance and Adjust Design					X										
Order New Parts if Needed					X										
Prototype: Code									X						
Continuous Rotation Direction						X									
Sensors						X									
HMI							X								
Motor Drivers/Motor Code								X							
Alternating Rotation Direction								X							
Sensors							X								
HMI							X								
Motor Drivers/Motor Code									X						
Evaluate Test Performance and Adjust Design									X						
Career Day					X										
Research Potential Companies					X										
Prepare Resume					X										
Arrive at STEM Internship and Career Day					X										
VDR 4								X							
Start PowerPoint						X									
Finalize PowerPoint							X								
Practice Presentation								X							
Present PowerPoint								X							
Spring Break										X					
Prototype Testing and Design Finalization														X	
Initial Electronics Testing				X											
Initial Mechanical Testing				X											

Initial Code Testing				X											
Initial Full Lifecycle Test									X						
Adjusted Variables Testing										X					
Present prototype to Sponsor											X				
Evaluate Test Performance and Adjust Design											X				
Finalize Design														X	
VDR 5												X			
Start PowerPoint										X					
Finalize PowerPoint											X				
Practice Presentation												X			
Present PowerPoint												X			
Final Fixture															
Check Stability													X		
Final Adjustments													X		
Final Lifecycle Test													X		
Operation Manual															
Initial Operation Manual Planning														X	
Draft Operation Manual														X	
Stakeholder Test and Interview														X	
Finalize Operation Manual															X
Final Website													X		
Start Creating Website		X													
Finalize Website												X			
Engineering Design Day															X
Start Poster													X		
Finalize Poster														X	
Test Final Design														X	
Practice Presentation															X
Arrive at COE and Present															X
VDR7															
Start Presentation												X		X	
Finalize Presentation															X
Practice Presentation															X
Arrive at COE and Present															
Finals Week															
Study															
Pass Exam															
Graduation															

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