



## 1.7 Spring Project Plan

With the conclusion of activities in the planning phase of the design process, we are setting up a framework for the final development and implementation of systems over the coming months. As we are choosing a rather complex system, separating it into a variety of subsystems and steps for developing is important to success in its creation. The below chart goes through many of these steps, with the blue squares associated to tasks and development of each system and its implementations, green squares representing meeting with advisors and sponsors, and orange representing presentations and competitions. We are beginning to order essential components in association with their lead times and development start date, and when received these parts will be quickly organized and measured to see if we will need to return any parts. Simultaneously, a CAD prototype will be created with simulations running alongside to verify functionality. As these steps are completed, the system will be implemented and constructed, with programming and measurements done for verification and to reach functionality.

Task	December	January	February	March	April	May
Part ordering	■	■	■			
Staff meetings	■	■	■	■	■	
Measurements and corrections		■	■	■	■	
Spindle and frame CAD model	■	■	■			
Part reception and organization		■	■	■		
Spindle and frame construction		■	■			
Computer construction		■	■			
Movement test and design			■	■		
Linear movement CAD design		■	■	■		
Linear movement construction				■	■	
Linear movement verifications				■	■	
Sensor implementation				■	■	
Sensor programming				■	■	
Complete CAD model	■	■	■	■		
Enclosure construction				■	■	

