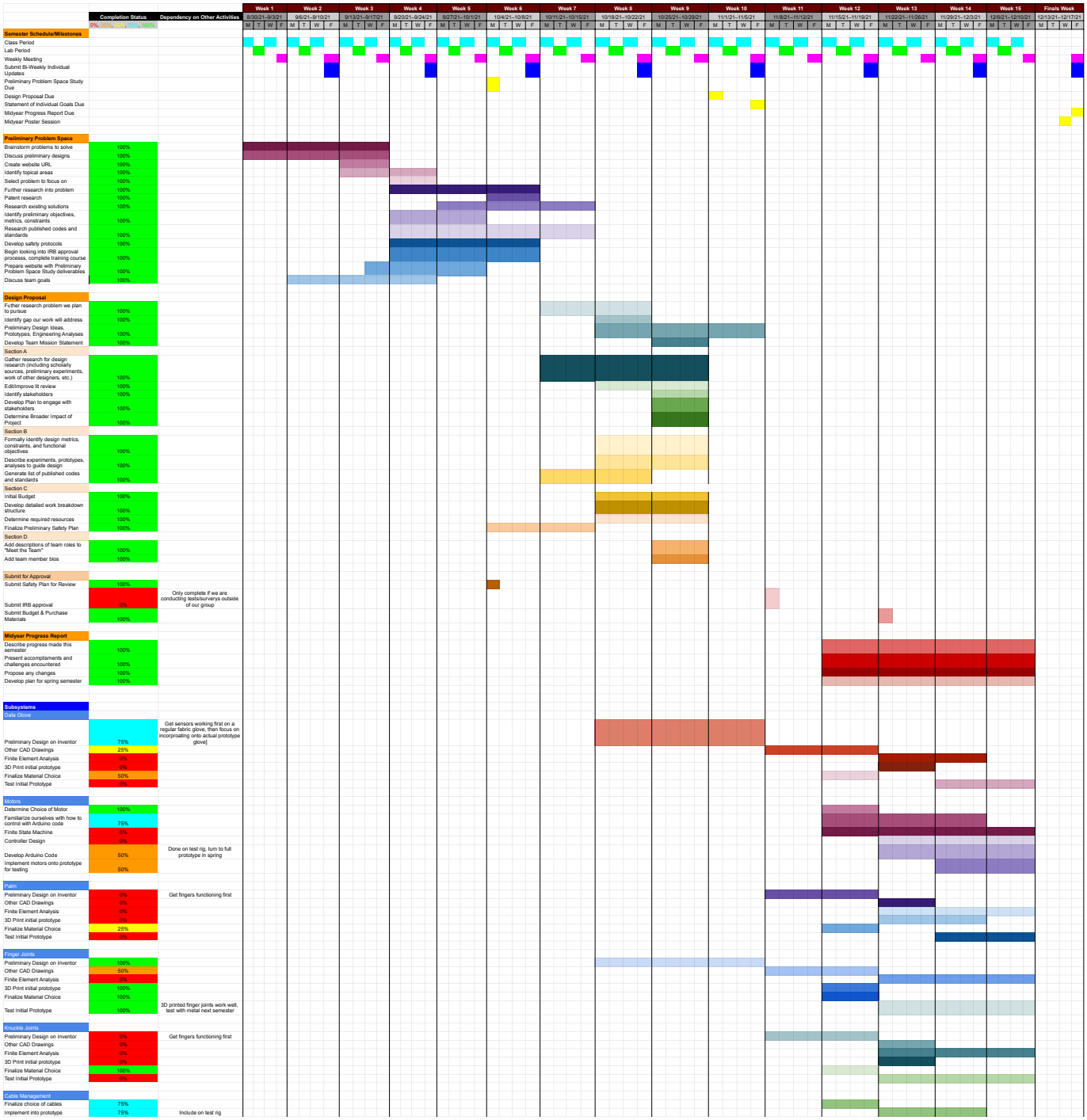
Week 1 8/30/21–9/3/21
Week 2 9/6/21–9/10/21
Week 3 9/13/21–9/17/21
Week 4 9/20/21–9/24/21
Week 5 9/27/21–10/1/21
Week 6 10/4/21–10/8/21
Week 7 10/11/21–10/15/21
Week 8 10/18/21–10/22/21
Week 9 10/25/21–10/29/21
Week 10 11/1/21–11/5/21
Week 11 11/8/21–11/12/21
Week 12 11/15/21–11/19/21
Week 13 11/22/21–11/26/21
Week 14 11/29/21–12/3/21
Week 15 12/6/21–12/10/21
Finals Week 12/13/21–12/17/21
M T W F
0% 100%
Completion Status
Dependency on Other Activities
Semester Schedule/Milestones
Class Period
Lab Period
Weekly Meeting
Submit Bi-Weekly Individual Updates
Preliminary Problem Space Study Due
Design Proposal Due
Statement of Individual Goals Due
Midyear Progress Report Due
Midyear Poster Session
Preliminary Problem Space
Brainstorm problems to solve 100%
Discuss preliminary designs 100%
Create website URL 100%
Identify topical areas 100%
Select problem to focus on 100%
Further research into problem 100%
Patent research 100%
Research existing solutions 100%
Identify preliminary objectives, metrics, constraints 100%
Research published codes and standards 100%
Develop safety protocols 100%
Begin looking into IRB approval processs, complete training course 100%
Prepare website with Preliminary Problem Space Study deliverables 100%
Discuss team goals 100%
Design Proposal
Futher research problem we plan to pursue 100%
Identify gap our work will address 100%
Preliminary Design Ideas, Prototypes, Engineering Analyses 100%
Develop Team Mission Statement 100%
Section A
Gather research for design research (including scholarly sources, preliminary experiments, work of other designers, etc.) 100%
Edit/improve IR review 100%
Identify stakeholders 100%
Develop Plan to engage with stakeholders 100%
Determine Broader Impact of Project 100%
Section B
Formally identify design metrics, constraints, and functional objectives 100%
Describe experiments, prototypes, analyses to guide design 100%
Generate list of published codes and standards 100%
Section C
Initial Budget 100%
Develop detailed work breakdown structure 100%
Determine required resources 100%
Finalize Preliminary Safety Plan 100%
Section D
Add descriptions of team roles to "Meet the Team" 100%
Add team member bios 100%
Submit for Approval
Submit Safety Plan for Review 100%
Submit IRB approval 0% Only complete if we are conducting tests/surveys outside of our group
Submit Budget & Purchase Materials 100%
Midyear Progress Report
Describe progress made this semester 100%
Present accomplisments and challenges encountered 100%
Propose any changes 100%
Develop plan for spring semester 100%
Subsystems
Data Glove
Preliminary Design on Inventor 75% Get sensors working first on a regular fabric glove, then focus on incorproating onto actual prototype glove]
Other CAD Drawings 25%
Finite Element Analysis 0%
3D Print initial prototype 0%
Finalize Material Choice 50%
Test Initial Prototype 0%
Motors
Determine Choice of Motor 100%
Familiarize ourselves with how to control with Arduino code 75%
Finite State Machine 0%
Controller Design 0%
Develop Arduino Code 50% Done on test rig, turn to full prototype in spring
Implement motors onto prototype for testing 50%
Palm
Preliminary Design on Inventor 0% Get fingers functioning first
Other CAD Drawings 0%
Finite Element Analysis 0%
3D Print initial prototype 0%
Finalize Material Choice 25%
Test Initial Prototype 0%
Finger Joints
Preliminary Design on Inventor 100%
Other CAD Drawings 50%
Finite Element Analysis 0%
3D Print initial prototype 100%
Finalize Material Choice 100%
Test Initial Prototype 100% 3D printed finger joints work well, test with metal next semester
Knuckle Joints
Preliminary Design on Inventor 0% Get fingers functioning first
Other CAD Drawings 0%
Finite Element Analysis 0%
3D Print initial prototype 0%
Finalize Material Choice 100%
Test Initial Prototype 0%
Cable Management
Finalize choice of cables 75%
Implement into prototype 75% Include on test rig