

| Week | Day | Date    | Recurring Tasks      | Team Goals  | Individual Deliverables RED-COMLETE                          |  |  |   |   |   |
|------|-----|---------|----------------------|---|--|--|--|---|---|---|
|      |     |         |                      |   | Ben  | Victor   | Nick   | Jacob   | Dylan   | Zeming  |
| 1    | S   | 3/28/21 |                      |   |  |  |  |   |   |   |
|      | M   | 3/29/21 | 1000 Team Meeting    |   |  |  |  |   |   |   |
|      | T   | 3/30/21 |                      |   |  |  |  |   |   |   |
|      | W   | 3/31/21 |                      |   |  |  |  |   |   |   |
|      | Th  | 4/1/21  | 1000 Sponser Meeting |   |  |  |  |   |   |   |
| 2    | F   | 4/2/21  | Progress Report      |   |  |  |  |   |   |   |
|      | S   | 4/3/21  |                      |   |  |  |  |   |   |   |
|      | S   | 4/4/21  |                      |   |  |  |  |   |   |   |
|      | M   | 4/5/21  | 1000 Team Meeting    |   |  |  |  |   |   |   |
|      | T   | 4/6/21  |                      |   |  |  |  |   |   |   |
| 3    | W   | 4/7/21  |                      | Finish Blimp Design Document and send to sponsor                                      | Assist with writing Metrics                                  | Write Software chapter introduction, Review Design Space | Draft outline for Introduction section for the FOCUS |   |   | Select some of the originals you need in your d   |
|      | Th  | 4/8/21  | 1000 Sponser Meeting | Discuss Blimp Design document with Sponsor  | Review Metrics section with Jacob and formal information     | Write Software chapter introduction, Review Design Space |  | Write Chapter 3: Metrics                          | Finish comments for Dr.Fawad                      |   |
|      | F   | 4/9/21  | Progress Report      | Revise Blimp Design Document, Review Metrics section from previous doc. Begin Project | Decide Best software, Review chapter details                 | Decide Best Software                                     | Decide Best Software                                 | Decide Best Software                              | Review the Design Space section of the doc        | Review the Design Space section of the doc        |
|      | S   | 4/10/21 |                      | Revise Blimp Design Document  | Read AA 449 Final Milestone Report                           |  |  |   | Review the Design Space section of the doc        |   |
|      | S   | 4/10/21 |                      | Revise Blimp Design Document  | Blimp Project  |  |  |   | Review the Design Space section of the doc        |   |
| 4    | S   | 4/11/21 |                      | Revise Blimp Design Document  | Read AA 449 Final Milestone Report                           |  |  |   | Review the Design Space section of the doc        |   |
|      | M   | 4/12/21 | 0900 Team Meeting    | Revise Blimp Design Document to final draft and send to sponsor                       | Blimp Project  |  |  |   | Review the Design Space section of the doc        |   |
|      | T   | 4/13/21 |                      |   | Implement suggestions/corrections from Mark                  | Design and update project wiki                           |  | update capstone plan                              | Design a dynamic equations model document         | Write Chapter 3: Metrics                          |
|      | W   | 4/14/21 |                      |   | Implement suggestions/corrections from Mark                  | Design and update project wiki                           |  |   | Finish a dynamic equation documentation for       | Write Chapter 3: Metrics                          |
|      | Th  | 4/15/21 | 1000 Team Meeting    |   | Research methods of testing blimp for Ch 3                   | Design and update project wiki                           | achieve stationary blimp simulation                  | Write explanations for metrics                    | Refine the Introduction section and start to in   | Learn mathematics about airship design            |
| 5    | F   | 4/16/21 | Progress Report      |   | Create a rough test for simulation for Ch 3                  | Design and update project wiki                           | Add control surfaces                                 | Write explanations for metrics                    | Assist in the writing in metrics, performance     | Read different reports to check for required only |
|      | S   | 4/17/21 |                      |   | Review Ch 4 metrics table with Team                          | Design and update project wiki                           | control propellers with external code                | Write explanations for metrics                    | Start to create a journal presentation to present | Perfect the information that needs to be perfect  |
|      | S   | 4/18/21 |                      |   | Read into simulation/ get a debrief from the simulation test |  |  |   | Finish +65 paper from Dr. Per                     | Read the completed report                         |
|      | M   | 4/19/21 | 0900 Team Meeting    | Achieve basic blimp simulation  | Finalize testing   |  |  |   | Creates comprehensive dynamic modeling es         |   |
|      | T   | 4/20/21 |                      |   | Assist with prototype gondola design                         | Begin stationary blimp using webots                      | Achieve Controlled flight with code                  | Write detailed summary of chosen software and s   | Start second +80 paper from Dr. Per               |   |
| 6    | W   | 4/21/21 |                      |   | add control surfaces   |  | Refine Controlled flight                             | Write detailed summary of chosen software and s   | Start Prototype design (Gondola)                  | Assist Prototype Design: Thrusters(The drive r    |
|      | Th  | 4/22/21 | 1000 Sponser Meeting | Present basic blimp simulation to sponsor   | Assist Prototype Design: Thrusters                           | prepare simulation for sponsor presentation              | prepare simulation for sponsor presentation          | Write detailed summary of chosen software and s   | Prototype Design: Thrusters                       | Assist Prototype Design: Thrusters(The drive r    |
|      | F   | 4/23/21 | Progress Report      |   | Assist Prototype Design: Thrusters                           | Present basic simulation to sponsor                      | Present basic simulation to sponsor                  | Present basic simulation to sponsor               | Prototype Design: Thrusters                       | Prototype Design: Thrusters                       |
|      | S   | 4/24/21 |                      |   | Assist Prototype Design: Cage                                | Review lessons from simulation creation and sponsor ing  | Review lessons from simulation creation and spons    | Review lessons from simulation creation and spons | Prototype Design: Cage                            | Prototype Design: Cage                            |
|      | S   | 4/25/21 |                      |   |  |  |  |   | Finish second +80 Paper from Dr. P                |   |
| 7    | M   | 4/26/21 | 0900 Team Meeting    |   | Prototype Design: Cage                                       |  |  |   | Prototype Design: Cage                            |   |
|      | T   | 4/27/21 |                      |   | Prototype Design: Cage door                                  | integrate metrics measurement                            | integrate metrics measurement                        | integrate metrics measurement                     | Prototype Design: Cage door                       | Prototype Design: Cage door                       |
|      | W   | 4/28/21 |                      |   | Prototype Design: Cage door                                  | integrate metrics measurement                            | integrate metrics measurement                        | integrate metrics measurement                     | Prototype Design: Cage door                       | Prototype Design: Cage door                       |
|      | Th  | 4/29/21 | 1000 Sponser Meeting | Refine blimp simulation, add movement and plan for sponsor to add autonomy            | Prototype Design: Envelope Attachment                        | integrate metrics measurement                            | integrate metrics measurement                        | integrate metrics measurement                     | Prototype Design: Envelope Attachment             | Prototype Design: Envelope Attachment             |
|      | F   | 4/30/21 | Progress Report      |   | Prototype Design: Envelope Attachment                        | Communicate metrics measurement with sponsor and m       | Communicate metrics measurement with sponsor a       | Communicate metrics measurement with sponsor a    | Prototype Design: Envelope Attachment             | Prototype Design: Envelope Attachment             |
| 8    | S   | 5/1/21  |                      |   | Design iteration: With Dylan                                 | integrate metrics measurement                            | integrate metrics measurement                        | integrate metrics measurement                     | Design iteration: With Ben                        |   |
|      | S   | 5/2/21  |                      |   | Design iteration: With Dylan                                 |  |  |   | Design iteration: With Ben                        |   |
|      | M   | 5/3/21  | 0900 Team Meeting    |   | Design Choice (Grams per design calculation)                 |  |  |   | Design Choice (Grams per design calculation)      | Design Choice (Grams per design calculation)      |
|      | T   | 5/4/21  |                      |   | Design Choice (Best component ranking)                       | set up flight path simulation demonstration              | set up flight path simulation demonstration          | set up flight path simulation demonstration       | Design Choice (Best component ranking)            | Design Choice (Best component ranking)            |
|      | W   | 5/5/21  |                      | Begin working on Capstone presentation  | Prepare for Presentation                                     | set up flight path simulation demonstration              | set up flight path simulation demonstration          | set up flight path simulation demonstration       | Prepare for Presentation                          | Prepare for Presentation                          |
| 9    | Th  | 5/6/21  | 1000 Sponser Meeting | Present final simulation to sponsor (sponsor handoff?)                                | Present Physical Blimp Airframe Design                       | Present Blimp Simulation                                 | Present Blimp Simulation                             | Present Blimp Simulation                          | Present Physical Blimp Airframe Design            | Present Physical Blimp Airframe Design            |
|      | F   | 5/7/21  | Progress Report      |   | Reflect on Project Deliverables in silence                   | Reflect on Project Deliverables in silence               | Reflect on Project Deliverables in silence           | Reflect on Project Deliverables in silence        | Reflect on Project Deliverables in silence        | Reflect on Project Deliverables in silence        |
|      | S   | 5/8/21  |                      |   |  |  |  |   |   |   |
|      | S   | 5/9/21  |                      |   |  |  |  |   |   |   |
|      | M   | 5/10/21 | 0900 Team Meeting    |   |  |  |  |   |   |   |
| 10   | T   | 5/11/21 |                      |   |  |  |  |   |   |   |
|      | W   | 5/12/21 |                      |   |  |  |  |   |   |   |
|      | Th  | 5/13/21 | 1000 Sponser Meeting |   |  |  |  |   |   |   |
|      | F   | 5/14/21 | Progress Report      |   |  |  |  |   |   |   |
|      | S   | 5/15/21 |                      |   |  |  |  |   |   |   |
| 11   | S   | 5/16/21 |                      |   |  |  |  |   |   |   |
|      | M   | 5/17/21 | 0900 Team Meeting    |   |  |  |  |   |   |   |
|      | T   | 5/18/21 |                      |   |  |  |  |   |   |   |
|      | W   | 5/19/21 |                      |   |  |  |  |   |   |   |
|      | Th  | 5/20/21 | 1000 Sponser Meeting |   |  |  |  |   |   |   |
| 12   | F   | 5/21/21 | Progress Report      |   |  |  |  |   |   |   |
|      | S   | 5/22/21 |                      |   |  |  |  |   |   |   |
|      | S   | 5/23/21 |                      |   |  |  |  |   |   |   |
|      | M   | 5/24/21 | 0900 Team Meeting    |   | Discus Slideshow presentation                                | Discus Slideshow presentation                            | Discus Slideshow presentation                        | Discus Slideshow presentation                     | Discus Slideshow presentation                     | Discus Slideshow presentation                     |
|      | T   | 5/25/21 |                      |   | prepare slideshow  | prepare slideshow  | prepare slideshow                                    | prepare slideshow                                 | prepare slideshow                                 | prepare slideshow                                 |
| 13   | W   | 5/26/21 |                      |   | prepare slideshow  | prepare slideshow  | prepare slideshow                                    | prepare slideshow                                 | prepare slideshow                                 | prepare slideshow                                 |
|      | Th  | 5/27/21 | 1000 Sponser Meeting |   |  |  |  |   |   |   |
|      | F   | 5/28/21 | Progress Report      | Prepare Slideshow   | prepare slideshow  | prepare slideshow  | prepare slideshow                                    | prepare slideshow                                 | prepare slideshow                                 | prepare slideshow                                 |
|      | S   | 5/29/21 |                      |   |  |  |  |   |   |   |
|      | S   | 5/30/21 |                      |   |  |  |  |   |   |   |
| 14   | M   | 5/31/21 | 0900 Team Meeting    |   |  |  |  |   |   |   |
|      | T   | 6/1/21  |                      |   |  |  |  |   |   |   |
|      | W   | 6/2/21  |                      |   |  |  |  |   |   |   |
|      | Th  | 6/3/21  |                      |   |  |  |  |   |   |   |
|      | F   | 6/4/21  |                      | Capstone Presentation & Report Due  |  |  |  |   |   |   |
| 15   | S   | 6/5/21  |                      |   |  |  |  |   |   |   |
|      | S   | 6/5/21  |                      |   |  |  |  |   |   |   |