Juliana Altamira

(Teammates referred to by initials)

Engineering Notebook

09/10/2022

* Changed project assignments from Boeing -> STaTE

09/13/2022

* Assisted with completion of vision statement/product backlog
* Familiarization w/ GitHub & ZenHub

09/15/2022

* Created Engineering Notebook
* Created “Engineering Notebooks” file in GitHub

09/20/2022

* Created a google document where the team can lay out ideas for the project design
* Initiated idea on using a web application/website compatible on all devices

09/22/2022

* Started looking for possible platforms to begin website/simulation design and creation
* Started documentation group within team

<09/23/2022-10/03/2022>

* COVID + Hurricane

10/07/2022

* Assisted JC with SRS & SDS documents

10/15/2022-10/17/2022

* Sprint 1 Presentations
  + Edited/Completed sections of presentation slides
  + Distributed slides to team for in-class presentation

10/18/2022 & 10/22/2022

* Downloaded Django/Python onto computer
  + Had some trouble running it on Mac. With help of team, was able to figure out how to run it properly
  + Further familiarization with Django/Python

<10/31/2022-11/04/2022>

* Sick, again. Out of class this week
  + Communicated with team through Discord server on further plans for STaTE
  + Assisted with completion of Test Plan, edited & completed some sections

11/08/2022

* Created STaTE Sprint 2 presentation
* Assisted with finishing up SRS/SDS for Sprint 2

<11/09/2022-11/11/2022>

* Hurricane

11/14/2022

* Completed slides for Sprint 2 presentation (Hardware diagram/Parts Budget/Interface Architecture)

11/17/2022

* Downloaded Visual Studio code, worked through with group to get familiarized

<Thanksgiving>

11/29/2022

* Assigned to help with FO/documentation/floating help
  + FO fell through a bit… found it hard to work on code without other team member pushing their code through or without overriding their code. Mainly observed them code, stayed on documentation side. Hoping to be able to be more simulation involved come Spring semester.

12/02/2022

* Reformatted SRS to new specified format
* Assigned task to create Sprint 3 presentation

12/06/2022

* Met with Garfield, received feedback for SRS, inputted any given advice in Google Doc for future editing
* Continued to work on presentation

12/07/2022

<Caught the flu…>

* Finished presentation, sent link to presentation to group for any further editing

SPRING 2023 SEMESTER

01/19/2023

* Assigned to help with Power Distribution for the SimCraft with JC
* Worked with JC to find power panels and power equations to be coded into the simulation
* Emailed Raul Rumbaut (AFSC Manager) to see if we could get some information on the Suborbital Spaceflight Simulator (SSFS)

01/22/2023

* Checked out the SSFS
  + FINDINGS: Simulation code is locked, AFSC currently does not have any access to old documentation or software that we could use as reference for our senior design project

01/24/2023

* Met with Dr. Lasky
  + FINDINGS: Asked for clarification on her expectations on the project. She gave me more information about the subsystems she would like in the simulation and the major components of each subsystem, and how she would like those subsystems distributed to the students.
  + Compiled all information given to me from Dr. Lasky into a Google Doc and presented it to the rest of the group

01/26/2023

* Spoke w/ Dr. Lasky and Dr. Garfield about the project
  + Helped prepare some update questions with the group to present to Lasky & Garfield
* Helped clarify any questions the group had from my personal meeting with Lasky

01/31/2023

* Updated backlog per updated Lasky’s requirements

02/02/2023

* Tasked with designing the ACS Subsystem UI Design
  + Began working on this in class

02/07/2023-02/09/2023

* Continued research of ACS and components of ACS that would need a panel in the FO UI
* Created Sprint 1 Demo

02/14/2023

* Completed Sprint 1 Demo
* Completed UI for ACS, presented to group for remarks
* Tasked w/ creating the rest of the UIs for the remaining subsystems
* Tasked w/ creating a list of anomalies that we could simulate for the project

02/17/2023-02/21/2023

* Wisdom teeth removal, could not complete much
  + Was able to send JS a list of possible anomalies

02/23/2023

* Final touches on remaining UI Designs

03/05-07/2023

* Updated SRS/SDS

03/09/2023

* Worked on sprint 2 demo presentation, completed

03/14/2023

* Worked on defining coordinate system for ACS w/ group
  + Decided that doing a checkpoint every ¼ of the orbital period would be best, simcraft would have to be at a certain roll/pitch/yaw angle at each checkpoint

03/16/2023

* Decided to stay away from anomalies and stick directly with the script
* Split subsystems with JC, decided to take up ACS & TCS
* Began planning out subsystem python function for ACS

03/21/2023

* Completed planning ACS subsystem python functions
* Began planning out strings to be displayed in console command

03/23/2023

* Completed strings to be displayed for ACS
* Completed planning TCS subsystem functions
* Began planning out strings to be displayed in console command
* Assisted JC with Payload & COMMS

03/30/2023

* Completed coding ACS strings & functionality in python, pushed for rest of group

04/04/2023

* Completed coding TCS strings & functionality in python, pushed for rest of group

04/06/2023

* Changed image background for website to make more aesthetically pleasing
* Worked with group to fill in gaps within ACS & TCS
  + Worked to JS to fill in subsystem UIs to make it less free space
* Worked with group to debug subsystems