

# **Engineering Notebook**

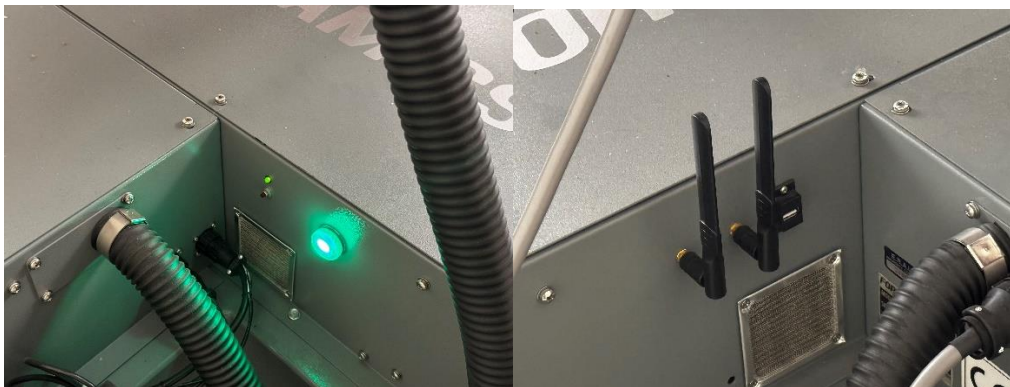
**Team 16 – Clear Path**

**09/12/2024** - Team 16s first meeting and talk with customer, Dr. Towhidnejad. Scrumwise and Github established to start adding to backlog and documentation for the project. Division of skills between team members like Scrum-Master, Software, Hardware, and documentation. Stand up meeting to discuss the proposed objectives from customer and first steps taken.

**09/24/2024** - Teams first day in LB 131 with the flight simulator. Below is some of the information we gathered.



The white switch turns on the whole rig, and the smaller switch on the right side is now to turn the PC on.

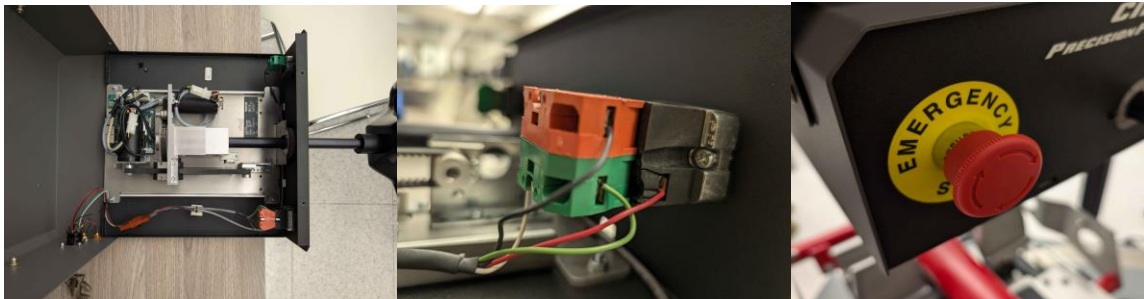


There is a small red button below the seat on the right side, click the button one time for the green light to illuminate. Finally plug a wired keyboard into the hub on the right picture, follow the prompts on the screen and get to the home screen. From there we can use the wireless keyboard with mouse built in to navigate. We also uploaded any relevant text documents into our GitHub (<https://github.com/SadeedKhan555/ClearPath>).



We got some time in on the simulator to see the different function, and displays within X-Plane.

10/15/2024 - Replacing Emergency stop button, part was ordered a week in advance install was slowed due to hurricane and campus closure. Images for button install are below. In addition, the peer reviews were completed by team members along with the sprint review presentation.



10/22/2024 - United Briefing; No work done

10/24/24 – Team meeting with student previously in charge of flight sim to ask questions related to start-up and uploading/inserting data into Xplane. Installation of graphics drivers to flight sim computer to start running XPlane 12. Sprint 3 finished; Items on backlog rearranged to reflect future project progress.

- Sprint objectives accomplished:
  - Meeting with student in charge of sim

10/24/2024 - I started working on the SRS version 1. It was important for us all to collaborate on this project. However I found that I was the only if not one of the only people working on this this day. Isaac was trying to get the plug in going.

10/29/2024 -The SRS was due this day and no one had worked on it. It was incredibly rushed and we attempted just to finish it all in one day. I mentioned to the group that I tried to get started on it early and that we really should for the future. This day was set Soley on documentation.

10/31/2024 - Once we completed the SRS, he had to continue to work on the actual project. Me and Isaac were looking at ways we could import an API. We first explored FlightRadar 24, but it was not going to work as planned. We also started working on our presentation.

11/05/2024 - This was an in class presentation day so we didn't work in class. But we worked outside of class. This day was focused on presentation prep. We needed to iron out our slides and make sure everyone knew what to say and in what time to say it.

11/07/2024 -Presentations so we didn't do much

11/12/2024 - This day was focused more on trying to get the implementation of the API info the simulator

11/14/2024 - We continued to work on getting the implantation in. We also started work on the SDD this time. I was able ot get a couple people to work on it so we could avoid a situation like the SRS.

11/19/2024 - Me and Michael started to work on what the poster would look like. We had a couple of renditions and were bouncing around ideas for things.

11/21/2024 -Me and Michael completed the poster, and we were very satisfied with how it looked.

11/26/2024 - This is right around the time for break and our SRS v2 is due soon. I did not get any help on this at first. I was working on most of the sections this day

11/28/2024 - This is on thanksgiving and I completed my part of the SRS. I felt like I did most of it and even started on the test plan this day. Bearing in mind this was all over break.

12/03/2024 - This day we recorded and I edited and submitted the video. I had everyone do their part and recorded myself doing a voice over in the simulated environment. I need to gt the poster from undergraduate research.

12/05/2024 - This is our poster presentation day, I also have to return the poster i borrowed from undergraduate research.