Senior Project Status Report

Name \_\_Yiyang Wang\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PSR #\_2\_ From \_Feb 21st, 2020\_ to \_March 11th, 2020\_

These are due on the first Wednesday after each PSR period. Make sure they are typed and on time.

**Part I - Bi-weekly update:**

**Hours:**

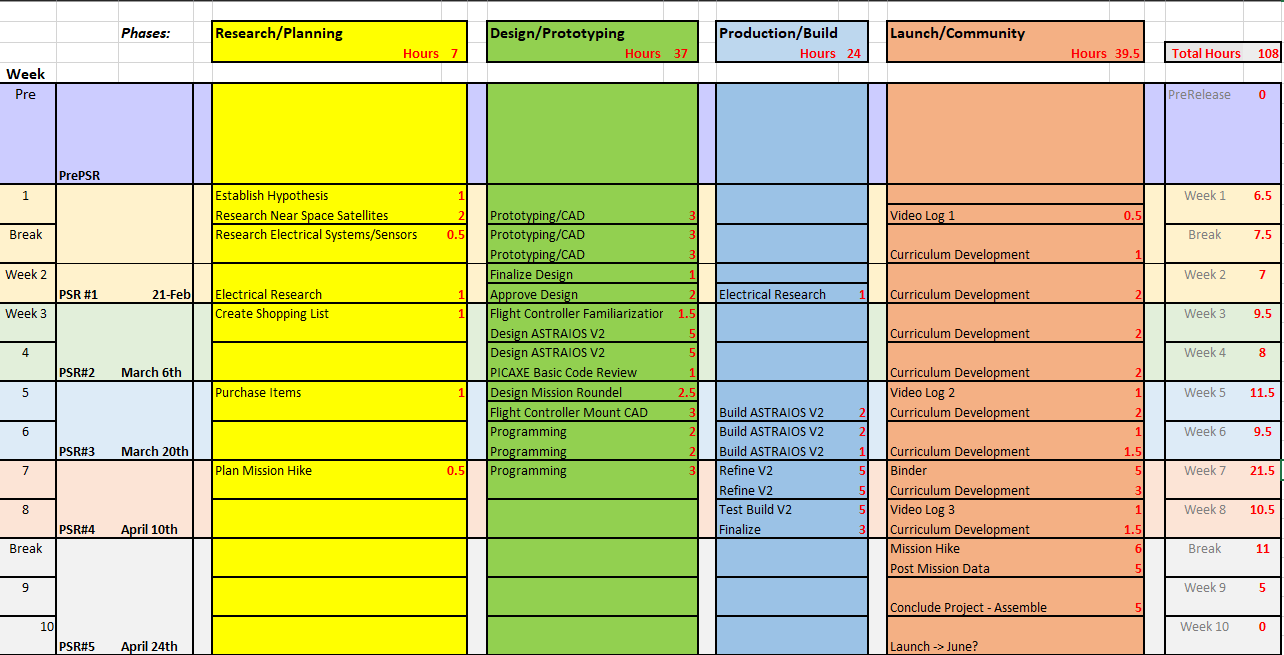
|  |  |  |
| --- | --- | --- |
| **Gantt Chart Phases** | **This PSR** | **Cumulative** |
| Phase: Research/Planning | 1 | 4.5 |
| Phase: Design/Prototyping | 12.5 | 24.5 |
| Phase: Production/Build | 0 | 1 |
| Phase: Launch/Community | 4 | 7.5 |
| **Total Hours** | **17.5** | **37.5** |

**Activities:**

| **Date & Time** | **Activities and Links** | **Hours** |
| --- | --- | --- |
| 11/22/2020 3:30PM-5:30PM | **Description of Activity (1-2 sentences): I planned a meeting and met with my to-be mentor to discuss my project. I proposed my ideas and discussed with him my goals for the project.**  **Deliverable(s):**  **This is an email chain of my emails with my mentor.** [11/22 Pre-PSR](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Professionalism.one#11/22%20Pre-PSR&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={13865661-BA6D-4BAD-9088-EDF1DDC61E0C}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProfessionalism.one%7CE41C09C8-E99E-4CB1-9483-B6ECD664970B%2F11%5C%2F22%20Pre-PSR%7C13865661-BA6D-4BAD-9088-EDF1DDC61E0C%2F%29)) | 2 |
| 2/5/2020 1:20 PM-3:50PM | **Description of Activity (1-2 sentences): I started looking up mission patches from NASA and SpaceX. Have chosen a general style and design that I like for my mission and will create a custom one soon.**  **Deliverable(s):**  **This is the research that I have done on the Mission Patches.**  [2/5 Mission Patch/Design Research](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Learning%20Stretch.one#2/5%20Mission%20Patch/Design%20Research&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={D8B4EF57-E1F3-4F6E-87D0-B4673204FD11}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FLearning%20Stretch.one%7CE7E9E522-889D-488B-BE06-3359A0EEF91F%2F2%5C%2F5%20Mission%20Patch%5C%2FDesign%20Research%7CD8B4EF57-E1F3-4F6E-87D0-B4673204FD11%2F%29)) | 2.5 |
| 2/10/2020 1:30PM- 5:00 PM | **Description of Activity (1-2 sentences): I met with my mentor again and went over my Gantt chart, and discussed the constraints of the project. I also setup a GitHub repository and began mapping out my plan for my satellite. I was sent documentation of the electrical board from my mentor. I named my project ‘ASTRAIOS’**  **Deliverable(s): GitHub page, Electrical documentation, Mentor meeting, a record of what I did that day.**  [2/10 GitHub Setup](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Learning%20Stretch.one#2/10%20Github%20Setup&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={CFA80159-1F77-4833-AE9D-3CA56746792E}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FLearning%20Stretch.one%7CE7E9E522-889D-488B-BE06-3359A0EEF91F%2F2%5C%2F10%20Github%20Setup%7CCFA80159-1F77-4833-AE9D-3CA56746792E%2F%29))  [2/10 Project Documentation](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Project%20Achievment.one#2/10%20Project%20Documentation&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={926EF3B5-EACB-4FDF-B5BF-7848FD2B5E91}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProject%20Achievment.one%7CD6625D17-BCC4-4DD2-8828-343D38BDA9E3%2F2%5C%2F10%20Project%20Documentation%7C926EF3B5-EACB-4FDF-B5BF-7848FD2B5E91%2F%29))  [2/10 Mentor Meeting](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Project%20Achievment.one#2/10%20Mentor%20Meeting&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={37CC4EF9-70A7-45F8-B359-3EB601E94AEA}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProject%20Achievment.one%7CD6625D17-BCC4-4DD2-8828-343D38BDA9E3%2F2%5C%2F10%20Mentor%20Meeting%7C37CC4EF9-70A7-45F8-B359-3EB601E94AEA%2F%29)) | 4.5 |
| 2/11/2020 4:00-6:00 | **Description of Activity (1-2 sentences): I was given two satellites from previous launches to look at from my mentor. I took some time to go over the structure and materials of the satellite. I also created an online Trello/checklist for my project**  **Deliverable(s): A few pictures of the satellites I borrowed from past missions.**  [2/11 Sample Satellites](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Project%20Achievment.one#2/11%20Sample%20Satellites&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={B32978BF-5253-493B-A30A-BC7F8B7F9FCF}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProject%20Achievment.one%7CD6625D17-BCC4-4DD2-8828-343D38BDA9E3%2F2%5C%2F11%20Sample%20Satellites%7CB32978BF-5253-493B-A30A-BC7F8B7F9FCF%2F%29))  [2/11 Organization](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Project%20Achievment.one#2/11%20Organization&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={955EF362-9052-4499-A708-81F85D13A378}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProject%20Achievment.one%7CD6625D17-BCC4-4DD2-8828-343D38BDA9E3%2F2%5C%2F11%20Organization%7C955EF362-9052-4499-A708-81F85D13A378%2F%29)) | 2 |
| 2/13/2020 2:00 PM-5:30PM | **Description of Activity (1-2 sentences): I began doing research on what satellite designs. I also have chosen my sensors which will guide my hypothesis. I also began to take video of my progress on the project.**  **Deliverable(s) [1 sentence description and link]:**  **Researched design and compiled research into a table, Sensor schematics and circuit board. Picture of camera I was using for log.** [2/13 Hypothesis creation/sensors](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Project%20Achievment.one#2/13%20Hypothesis%20creation/sensors&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={171C748E-4072-4B41-A59E-9FDB70001322}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProject%20Achievment.one%7CD6625D17-BCC4-4DD2-8828-343D38BDA9E3%2F2%5C%2F13%20Hypothesis%20creation%5C%2Fsensors%7C171C748E-4072-4B41-A59E-9FDB70001322%2F%29))  [2/13 Nearspace Satellite Research/Design](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Learning%20Stretch.one#2/13%20Nearspace%20Satellite%20Research/Design&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={36703B1C-8B83-484F-85E6-01233F4D0672}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FLearning%20Stretch.one%7CE7E9E522-889D-488B-BE06-3359A0EEF91F%2F2%5C%2F13%20Nearspace%20Satellite%20Research%5C%2FDesign%7C36703B1C-8B83-484F-85E6-01233F4D0672%2F%29))  [2/13 Part of.. Vlog 1](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Learning%20Stretch.one#2/13%20Part%20of..%20Vlog%201&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={C7C25C91-53C7-4677-BE41-279094AC7840}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FLearning%20Stretch.one%7CE7E9E522-889D-488B-BE06-3359A0EEF91F%2F2%5C%2F13%20Part%20of..%20Vlog%201%7CC7C25C91-53C7-4677-BE41-279094AC7840%2F%29)) | 3.5 |
| 2/17/2020 12:00AM – 1:30 PM | **Description of Activity (1-2 sentences): I have started to do some CAD design on the satellite. I drew up some sketches and played around in Autodesk Inventor to get used to the platform.**  **Deliverable(s) [1 sentence description and link]:**  **There are some pictures of me working on a piece of my satellite in CAD, and using Autodesk Inventor.**  [2/17 CAD Practice](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Learning%20Stretch.one#2/17%20CAD%20Practice&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={14820BB5-946B-4677-8091-475934B03D3C}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FLearning%20Stretch.one%7CE7E9E522-889D-488B-BE06-3359A0EEF91F%2F2%5C%2F17%20CAD%20Practice%7C14820BB5-946B-4677-8091-475934B03D3C%2F%29)) | 1.5 |
| 2/24/2020 1:20PM-3:00PM & 10:00PM-11:30PM | **Description of Activity (1-2 sentences): I have worked on a full prototype of the satellite design in Autodesk inventor. The design contains drawings of parts to make.**  **Deliverable(s) [1 sentence description and link]:**  **I have rendered an image of my progress so far and have added screenshots of the workspace.**  [2/24 CAD model designing](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Learning%20Stretch.one#2/24%20CAD%20model%20designing&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={4E6D8417-BF05-4E9A-9EF6-38AD39C87A87}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FLearning%20Stretch.one%7CE7E9E522-889D-488B-BE06-3359A0EEF91F%2F2%5C%2F24%20CAD%20model%20designing%7C4E6D8417-BF05-4E9A-9EF6-38AD39C87A87%2F%29)) | 4 |
| 3/2/2020 2:00PM-6:00PM | **Description of Activity (1-2 sentences):**  **I worked on the sensor cover, satellite wall, and other components for ASTRAIOS V2. I drew up sketches and have made the pieces. I also made other pieces for ASTRAIOS V2.**  **Deliverable(s):**  **There are screenshots of the progress on the CAD work which I have done.** [3/2 ASTRAIOS V2 SENSOR WALL](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Learning%20Stretch.one#3/2%20ASTRAIOS%20V2%20%20SENSOR%20WALL&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={ABBBBA91-139F-46B5-9066-D5DE08C1442B}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FLearning%20Stretch.one%7CE7E9E522-889D-488B-BE06-3359A0EEF91F%2F3%5C%2F2%20ASTRAIOS%20V2%20%20SENSOR%20WALL%7CABBBBA91-139F-46B5-9066-D5DE08C1442B%2F%29)) | 4 |
| 3/4/2020 2:00PM-5:00PM | **Description of Activity (1-2 sentences):**  **I worked on the student guidebook for my mentor’s flight and space class. It will be updated as my project progresses. I started the introduction. I also contacted my mentor to meet the next day.**  **Deliverable(s):**  **Printout and file of the guidebook so far, screenshot of email chain.** [3/4 Student Guide Book Progress](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Project%20Achievment.one#3/4%20Student%20Guide%20Book%20Progress&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={B0562D70-3C9E-421E-A9A3-72D20D4FDB67}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProject%20Achievment.one%7CD6625D17-BCC4-4DD2-8828-343D38BDA9E3%2F3%5C%2F4%20Student%20Guide%20Book%20Progress%7CB0562D70-3C9E-421E-A9A3-72D20D4FDB67%2F%29))  [3/4 Mentor Email](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Professionalism.one#3/4%20Mentor%20Email&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={4E8A44F4-ED6A-44AD-8D5F-1DE4B7F6D86E}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProfessionalism.one%7CE41C09C8-E99E-4CB1-9483-B6ECD664970B%2F3%5C%2F4%20Mentor%20Email%7C4E8A44F4-ED6A-44AD-8D5F-1DE4B7F6D86E%2F%29)) | 3 |
| 3/5/2020 1:30PM-6:30PM | **Description of Activity (1-2 sentences):**  **I met with my mentor to consult and discuss about additional details about my project. I got the flight controller, instructions, as well as example code for the satellite.**  **Deliverable(s):**  **Pictures of my visit that day, flight controller, programs.**  [3/5 Pages for construction/Shopping List](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Project%20Achievment.one#3/5%20Pages%20for%20construction/Shopping%20List&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={B458E60E-9FB3-477C-8736-9D8A033D6D63}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProject%20Achievment.one%7CD6625D17-BCC4-4DD2-8828-343D38BDA9E3%2F3%5C%2F5%20Pages%20for%20construction%5C%2FShopping%20List%7CB458E60E-9FB3-477C-8736-9D8A033D6D63%2F%29))  [3/5 Tyee In Class](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Project%20Achievment.one#3/5%20Tyee%20In%20Class&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={303CBBB4-C7BC-4840-9189-34BCA340B4C3}&end)   ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProject%20Achievment.one%7CD6625D17-BCC4-4DD2-8828-343D38BDA9E3%2F3%5C%2F5%20Tyee%20In%20Class%7C303CBBB4-C7BC-4840-9189-34BCA340B4C3%2F%29))  [3/5 Flight Board & Sensors](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Project%20Achievment.one#3/5%20Flight%20Board%20%20Sensors&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={218AF6F6-8386-431E-B1E7-42D0D941E8E2}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProject%20Achievment.one%7CD6625D17-BCC4-4DD2-8828-343D38BDA9E3%2F3%5C%2F5%20Flight%20Board%20%26%20Sensors%7C218AF6F6-8386-431E-B1E7-42D0D941E8E2%2F%29)) | 5 |
| 3/9/2020 1:30PM-5:00PM 9:00PM – 11:00PM | **Description of Activity (1-2 sentences):**  **I finished the assembly of close to all the parts for ASTRAIOS V2, I began reading the example code,**  **Deliverable(s):**  **Screenshots of the nearly finished fully assembly of ASTRAIOS V2, screenshots of the PICAXE IDE.**  [3/9 ASTRAIOS V2 FULL ASSEMBLY](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Learning%20Stretch.one#3/9%20ASTRAIOS%20V2%20FULL%20ASSEMBLY&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={17E0CD8C-7E2F-4D8C-8B8F-094AFA0A3595}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FLearning%20Stretch.one%7CE7E9E522-889D-488B-BE06-3359A0EEF91F%2F3%5C%2F9%20ASTRAIOS%20V2%20FULL%20ASSEMBLY%7C17E0CD8C-7E2F-4D8C-8B8F-094AFA0A3595%2F%29))  [3/9 PICAXE programs](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Learning%20Stretch.one#3/9%20PICAXE%20programs&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={FBE9EBAE-A8FB-4B0C-A5EB-7F1EA88CDE61}&end)   ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FLearning%20Stretch.one%7CE7E9E522-889D-488B-BE06-3359A0EEF91F%2F3%5C%2F9%20PICAXE%20programs%7CFBE9EBAE-A8FB-4B0C-A5EB-7F1EA88CDE61%2F%29)) | 5.5 |

**Progress:**

(Your most recently updated Gantt chart goes here. Make sure you have a saved copy of your original)



**Answer the next questions in complete sentences. Be thorough.**

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| **What were your original plans for this PSR period?** My original plans for this PSR period were to create a shopping list of things to purchase to build my satellite. I also planned to build the prototype satellite I’ve designed and to begin learning to program a PICAXE microcontroller and familiarizing myself with the flight controller. I also planned on beginning to make a guidebook for my mentor’s flight and space class at Tyee Middle School.  **What did you actually accomplish?**  I accomplished creating a shopping list of things to purchase, where I listed out the materials I will need to buy. I also accomplished familiarizing myself with the flight controller and PICAXE where my mentor sent me programming to reverse engineer and to figure out. Although I didn’t start making my prototype, I overhauled my old design and made a completely new version 2 ASTRAIOS design, which will important for the success of my project.  **What are your plans for the next PSR period?**  My next plans are to purchase the items which I have listed in my shopping list and do more learning on how to program a PICAXE microcontroller. I also need to finish making the mission roundel for ASTRAIOS, as I need to begin incorporating the designs onto my satellite. I also plan on designing the flight controller holder, and to continue working on the student guidebook for my project. |

**Part II - Overall Project Status:**

You will add to this section each PSR. The reflections will go into your portfolio.

New additions should be typed using **red text.**

Entries from previous PSRs should be changed to **black text**.

**Required Elements: Feedback, Presentation, & Deliverables**

**Required Feedback:** You must elicit expert feedback on your learning, project achievement, and

presentation. This feedback should be from two or three different sources, one of which can be your mentor. The other feedback can come from anyone else that you feel is qualified to give you feedback that will help you move forward with your goals.

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Type of feedback | Name | Title |
|  | Learning Stretch |  |  |
|  | Project Achievement |  |  |
|  | Presentation |  |  |
|  | Professionalism |  |  |
|  | Audience | N/A | Relevant? Yes / No |

**Presentation:** At some point in your project you must give a presentation to relevant project stakeholders. Describe the presentation, being sure to include: date, location, type of presentation, topic, audience, and success of presentation.

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**Deliverables:** You need to document your goal attainment with items that demonstrate what you are learning and achieving. You should be working towards having **AT LEAST 2 quality deliverables for each of your goals per PSR period**. You need to have a total of 10 for each goal by the time you are finished with release.

**Professionalism Deliverables:**

* [3/4 Mentor Email](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Professionalism.one#3/4%20Mentor%20Email&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={4E8A44F4-ED6A-44AD-8D5F-1DE4B7F6D86E}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProfessionalism.one%7CE41C09C8-E99E-4CB1-9483-B6ECD664970B%2F3%5C%2F4%20Mentor%20Email%7C4E8A44F4-ED6A-44AD-8D5F-1DE4B7F6D86E%2F%29))
* [3/5 Mentor sent me programs](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Professionalism.one#3/5%20Mentor%20sent%20me%20programs&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={174693CB-545A-4482-8FDA-12CF27A0F4F0}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProfessionalism.one%7CE41C09C8-E99E-4CB1-9483-B6ECD664970B%2F3%5C%2F5%20Mentor%20sent%20me%20programs%7C174693CB-545A-4482-8FDA-12CF27A0F4F0%2F%29))

**Learning Stretch Deliverables:**

* [3/9 ASTRAIOS V2 FULL ASSEMBLY](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Learning%20Stretch.one#3/9%20ASTRAIOS%20V2%20FULL%20ASSEMBLY&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={17E0CD8C-7E2F-4D8C-8B8F-094AFA0A3595}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FLearning%20Stretch.one%7CE7E9E522-889D-488B-BE06-3359A0EEF91F%2F3%5C%2F9%20ASTRAIOS%20V2%20FULL%20ASSEMBLY%7C17E0CD8C-7E2F-4D8C-8B8F-094AFA0A3595%2F%29))
* [3/2 ASTRAIOS V2 SENSOR WALL/SEGMENTS](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Learning%20Stretch.one#3/2%20ASTRAIOS%20V2%20%20SENSOR%20WALL/SEGMENTS&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={ABBBBA91-139F-46B5-9066-D5DE08C1442B}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FLearning%20Stretch.one%7CE7E9E522-889D-488B-BE06-3359A0EEF91F%2F3%5C%2F2%20ASTRAIOS%20V2%20%20SENSOR%20WALL%5C%2FSEGMENTS%7CABBBBA91-139F-46B5-9066-D5DE08C1442B%2F%29))
* [3/9 PICAXE programs](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Learning%20Stretch.one#3/9%20PICAXE%20programs&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={FBE9EBAE-A8FB-4B0C-A5EB-7F1EA88CDE61}&end)   ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FLearning%20Stretch.one%7CE7E9E522-889D-488B-BE06-3359A0EEF91F%2F3%5C%2F9%20PICAXE%20programs%7CFBE9EBAE-A8FB-4B0C-A5EB-7F1EA88CDE61%2F%29))

**Project Achievement Deliverables:**

* [3/4 Student Guide Book Progress](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Project%20Achievment.one#3/4%20Student%20Guide%20Book%20Progress&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={B0562D70-3C9E-421E-A9A3-72D20D4FDB67}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProject%20Achievment.one%7CD6625D17-BCC4-4DD2-8828-343D38BDA9E3%2F3%5C%2F4%20Student%20Guide%20Book%20Progress%7CB0562D70-3C9E-421E-A9A3-72D20D4FDB67%2F%29))
* [3/5 Tyee In Class](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Project%20Achievment.one#3/5%20Tyee%20In%20Class&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={303CBBB4-C7BC-4840-9189-34BCA340B4C3}&end)   ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProject%20Achievment.one%7CD6625D17-BCC4-4DD2-8828-343D38BDA9E3%2F3%5C%2F5%20Tyee%20In%20Class%7C303CBBB4-C7BC-4840-9189-34BCA340B4C3%2F%29))
* [3/5 Flight Board & Sensors](onenote:https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/SiteAssets/2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook/Wang,%20Yiyang%20(Student)/Project%20Achievment.one#3/5%20Flight%20Board%20%20Sensors&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={218AF6F6-8386-431E-B1E7-42D0D941E8E2}&end)  ([Web view](https://bsd405.sharepoint.com/sites/Section_SS_703.1-003-499/_layouts/OneNote.aspx?id=%2Fsites%2FSection_SS_703.1-003-499%2FSiteAssets%2F2019-S1-P7-US%20Gov_Sr%20Proj%20Notebook&wd=target%28Wang%2C%20Yiyang%20%28Student%5C%29%2FProject%20Achievment.one%7CD6625D17-BCC4-4DD2-8828-343D38BDA9E3%2F3%5C%2F5%20Flight%20Board%20%26%20Sensors%7C218AF6F6-8386-431E-B1E7-42D0D941E8E2%2F%29))

Reflections:

Choose one question to answer each time you submit a Project Status Report. The responses should be in the form of a typed out paragraph(s) and answers all of the elements of the question.

**Professionalism:** What interactions have you had so far in your project that demonstrate effective communication, evidence of a productive relationship with a stakeholder, and/or your ability to manage your project effectively?

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| So far, I have had great interactions with my mentor for this project as well as mentors from my robotics team. I’ve been able to effectively communicate my ideas to them in a timely and polite manner. Through the conversations whether it’d be through email or in person, I was able to understand what my mentor was thinking and how he wanted to help me with my project both on both the technical and academic aspects. For many of the emails I have been sending to my mentor I have aimed to reply in a timely manner and communicated my needs in a polite and respectful way. I am able manage my project effectively through maintaining an effective line of communication with my mentor. |

**Anticipating & Solving Problems:** Have you run into problems as you have worked on this project? If not, what steps did you take to avoid problems? If you have had problems, explain how you solved them. If you could start this project over, is there anything you would do differently based on the problems you have experienced?

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| I have run into a few problems so far on my project. My original design for ASTRAIOS turned out to be very complex, convoluted, difficult to build, and didn’t meet some specifications. To solve this issue, I brainstormed and referenced other ideas from other satellite designs and made modifications. I designed ASTRAIOS V2 which was a hexagon as compared to the old octagon design, and this time I was able to be within the constraints and still be able to fully incorporate the vital sensor holes and parts into the design. If I could start this project over, I would probably pay attention to the constraints of the project a bit more carefully. Nevertheless, I learned from this experience and enjoyed creating a newer and better design. |

**Learning Stretch:** Looking at your learning stretch goal, what aspect(s) of this goal have you achieved thus far? Be specific about what you have learned about your project topic and how you learned it. Describe any feedback you have gotten about your level of knowledge.

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**Project Achievement:** Looking at your project goal, what part(s) of your project have you completed so far? What things are going as planned and what things have surprised you? Reflect on your level of goal attainment. Describe any feedback you have gotten on the success of your project.

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**Community Involvement:** How has your project gotten you involved in the community so far?

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