Senior Project Status Report

Name \_\_Yiyang Wang\_\_\_\_\_\_\_\_\_ PSR #\_3-4\_ From \_March 11th, 2020\_ to \_April 10th, 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 | 5 | 9.5 |
| Phase: Design/Prototyping | 10 | 34.5 |
| Phase: Production/Build | 6 | 7 |
| Phase: Launch/Community | 3 | 10.5 |
| **Total Hours** | **23** | **61.5** |

**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 |
| 3/19/2020 2:00 PM-6:00 PM 7:00 PM – 9:00 PM | **Description of Activity (1-2 sentences):**  **I finished designing mission patch design for ASTRAIOS. Along the way I had to do a lot of research on editing text to make it fit a circle.**  **Deliverable(s):** [3/19 ASTRAIOS 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#3/19%20ASTRAIOS%20Design&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={0157BEF5-09FD-41BD-BCF8-3DAD8E6FED87}&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%2F19%20ASTRAIOS%20Design%7C0157BEF5-09FD-41BD-BCF8-3DAD8E6FED87%2F%29)) | 6 |
| 3/22/2020 10:00 AM-4:00 PM | **Description of Activity (1-2 sentences):**   * **The power lead was no longer attached. I had to cut open the plastic and solder it back on. Fortunately, I got it to work again and receive power.** * **Purchased mylar backed polystyrene and wooden dowel. Went to Lowes and Home Depot. Supplies which were needed to make cube-sat.** * **Emailed my mentor to see what his next steps were following the school closure.**     **Deliverable(s):**  [3/21-3/22 Senior Project Update](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#3/21-3/22%20Senior%20Project%20Update&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={C1AB8A13-EE43-4D2A-801C-C2FDA3F36007}&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%2F21-3%5C%2F22%20Senior%20Project%20Update%7CC1AB8A13-EE43-4D2A-801C-C2FDA3F36007%2F%29))  [3/22 Soldering](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#3/22%20Soldering&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={E42F5CE3-3683-450B-A9C3-86E349B5FE5F}&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%2F22%20Soldering%7CE42F5CE3-3683-450B-A9C3-86E349B5FE5F%2F%29))  [3/22 Purchasing Supplies](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#3/22%20Purchasing%20Supplies&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={A121EDAC-B70D-4D2C-911A-1C2CD5AD8FCC}&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%2F22%20Purchasing%20Supplies%7CA121EDAC-B70D-4D2C-911A-1C2CD5AD8FCC%2F%29)) | 8 |
| 4/2/2020-4/3/2020, 4/8/2020 | **Description of Activity (1-2 sentences):**   * **Followed up my earlier email to my mentor on my progress and scheduled a meeting.** * **Sent another follow up email for materials.**   **Deliverable(s):**  [4/2 Senior Project Follow Up](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#4/2%20Senior%20Project%20Follow%20Up&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={0441AD98-1449-4A63-9A07-4824B7C4FB00}&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%2F4%5C%2F2%20Senior%20Project%20Follow%20Up%7C0441AD98-1449-4A63-9A07-4824B7C4FB00%2F%29))  [4/3 Called Mentor](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#4/3%20Called%20Mentor&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={110274C9-949A-45C0-B2F7-34B011E83716}&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%2F4%5C%2F3%20Called%20Mentor%7C110274C9-949A-45C0-B2F7-34B011E83716%2F%29))  [4/12-4/13 2nd Follow Up](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#4/12-4/13%202nd%20Follow%20Up&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={2178B1E5-A280-4A26-A7AD-CD1323F6C268}&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%2F4%5C%2F12-4%5C%2F13%202nd%20Follow%20Up%7C2178B1E5-A280-4A26-A7AD-CD1323F6C268%2F%29)) | 2.5 |
| 4/14/2020-4/15/2020 | **Description of Activity (1-2 sentences):**  **My mentor was unable to find the conversion spreadsheet for the data, so I emailed another contact.**  **Deliverable(s):**  [4/14 Mr Ruder](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#4/14%20Mr%20Ruder&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={3C1DD81F-5756-4B6C-AECA-CEAE7A985F7D}&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%2F4%5C%2F14%20Mr%20Ruder%7C3C1DD81F-5756-4B6C-AECA-CEAE7A985F7D%2F%29))  [4/15 Sensor Output Conversion](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#4/15%20Sensor%20Output%20Conversion&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={C429B28B-DA01-4661-8A3F-34A4C8827865}&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%2F4%5C%2F15%20Sensor%20Output%20Conversion%7CC429B28B-DA01-4661-8A3F-34A4C8827865%2F%29)) | 1 |
| 4/16/2020 11:00 AM – 3:00 PM  4/17/2020 | **Description of Activity (1-2 sentences): I was able to get the flight board to capture humidity, temperature, and UV data.**  **Deliverable(s):** [4/16 Sensor Data](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#4/16%20Sensor%20Data&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={5A170315-D9B5-470D-881E-27A685D82CDA}&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%2F4%5C%2F16%20Sensor%20Data%7C5A170315-D9B5-470D-881E-27A685D82CDA%2F%29))  [4/17 Home Test](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#4/17%20Home%20Test&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={E32AA7F9-A5E0-4CDA-8993-83110ECC74F1}&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%2F4%5C%2F17%20Home%20Test%7CE32AA7F9-A5E0-4CDA-8993-83110ECC74F1%2F%29)) | 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.**

|  |
| --- |
| **What were your original plans for this PSR period?** My original plans for this PSR period were to build my satellite with the CAD drawings which I had finished from the last PSR. I also had planned to take a hike with the prototype to test the sensors and to capture some test data to make sure that the flight board worked. I also was planning on help TA for the flight and space class at Tyee.  **What did you actually accomplish?**  I accomplished buying the materials which are needed in building the cube-sat. I also accomplished the task of writing the mission program for ASTRAIOS and modifying it so it could track 3 variables: humidity, temperature, and UV. Additionally, I was able to acquire a conversion chart for the data. Lastly, I was able to finish making the mission patch for ASTRAIOS.  **What are your plans for the next PSR period?**  My next plans are to try to adapt to the situation which we are currently in. I am currently unable to build my satellite, so I am going to try my best to change my project in a direction where I can produce a tangible product. My plans in the next PSR period are to plan, film, and edit a video explaining the flight controller and to debug the current issues that I’m having with it. If possible, if circumstances allow, I will try to make a very rough model of my satellite. |

**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.

|  |
| --- |
| . |

**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:**

* [3/21-3/22 Senior Project Update](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#3/21-3/22%20Senior%20Project%20Update&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={C1AB8A13-EE43-4D2A-801C-C2FDA3F36007}&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%2F21-3%5C%2F22%20Senior%20Project%20Update%7CC1AB8A13-EE43-4D2A-801C-C2FDA3F36007%2F%29))
* [4/2 Senior Project Follow Up](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#4/2%20Senior%20Project%20Follow%20Up&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={0441AD98-1449-4A63-9A07-4824B7C4FB00}&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%2F4%5C%2F2%20Senior%20Project%20Follow%20Up%7C0441AD98-1449-4A63-9A07-4824B7C4FB00%2F%29))
* [4/3 Called Mentor](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#4/3%20Called%20Mentor&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={110274C9-949A-45C0-B2F7-34B011E83716}&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%2F4%5C%2F3%20Called%20Mentor%7C110274C9-949A-45C0-B2F7-34B011E83716%2F%29))
* [4/8 Follow Up](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#4/8%20Follow%20Up&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={A5F63D86-2347-4757-BC2E-6A44D85D4655}&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%2F4%5C%2F8%20Follow%20Up%7CA5F63D86-2347-4757-BC2E-6A44D85D4655%2F%29))
* [4/12-4/13 2nd Follow Up](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#4/12-4/13%202nd%20Follow%20Up&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={2178B1E5-A280-4A26-A7AD-CD1323F6C268}&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%2F4%5C%2F12-4%5C%2F13%202nd%20Follow%20Up%7C2178B1E5-A280-4A26-A7AD-CD1323F6C268%2F%29))
* [4/14 Mr Ruder](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#4/14%20Mr%20Ruder&section-id={E41C09C8-E99E-4CB1-9483-B6ECD664970B}&page-id={3C1DD81F-5756-4B6C-AECA-CEAE7A985F7D}&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%2F4%5C%2F14%20Mr%20Ruder%7C3C1DD81F-5756-4B6C-AECA-CEAE7A985F7D%2F%29))

**Learning Stretch Deliverables:**

* [3/19 ASTRAIOS 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#3/19%20ASTRAIOS%20Design&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={0157BEF5-09FD-41BD-BCF8-3DAD8E6FED87}&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%2F19%20ASTRAIOS%20Design%7C0157BEF5-09FD-41BD-BCF8-3DAD8E6FED87%2F%29))
* [3/21 Mission Program](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#3/21%20Mission%20Program&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={5E711F48-4974-460C-9C88-8F37D0A69B02}&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%2F21%20Mission%20Program%7C5E711F48-4974-460C-9C88-8F37D0A69B02%2F%29))
* [3/22 Soldering](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#3/22%20Soldering&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={E42F5CE3-3683-450B-A9C3-86E349B5FE5F}&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%2F22%20Soldering%7CE42F5CE3-3683-450B-A9C3-86E349B5FE5F%2F%29))
* [4/16 Sensor Data](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#4/16%20Sensor%20Data&section-id={E7E9E522-889D-488B-BE06-3359A0EEF91F}&page-id={5A170315-D9B5-470D-881E-27A685D82CDA}&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%2F4%5C%2F16%20Sensor%20Data%7C5A170315-D9B5-470D-881E-27A685D82CDA%2F%29))

**Project Achievement Deliverables:**

* [3/22 Purchasing Supplies](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#3/22%20Purchasing%20Supplies&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={A121EDAC-B70D-4D2C-911A-1C2CD5AD8FCC}&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%2F22%20Purchasing%20Supplies%7CA121EDAC-B70D-4D2C-911A-1C2CD5AD8FCC%2F%29))
* [4/3 Burke Meeting Notes](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#4/3%20Burke%20Meeting%20Notes&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={F75B4E43-C791-4748-934C-179C74F699C2}&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%2F4%5C%2F3%20Burke%20Meeting%20Notes%7CF75B4E43-C791-4748-934C-179C74F699C2%2F%29))
* [4/15 Sensor Output Conversion](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#4/15%20Sensor%20Output%20Conversion&section-id={D6625D17-BCC4-4DD2-8828-343D38BDA9E3}&page-id={C429B28B-DA01-4661-8A3F-34A4C8827865}&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%2F4%5C%2F15%20Sensor%20Output%20Conversion%7CC429B28B-DA01-4661-8A3F-34A4C8827865%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?

|  |
| --- |
| 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?

|  |
| --- |
| 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.

|  |
| --- |
| I believe that I’ve learned a lot from PSR1 till now. In fact, I believe I’ve exceeded myself in my learning stretch goal. Learning to debug, CAD, program, and graphic design. A part of my project which I learned a lot was when I made the mission patch. There were a lot of resources which I had to look up either on YouTube or online forums such as writing text on the circumference of a circle, or the skills needed to create an aesthetically pleasing graphic. I have shown the mission patch to my friends and they seemed to be impressed with what I had, and I was glad that I made something that I was satisfied with myself. |

**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.

|  |
| --- |
| Looking at my project goal and with the current circumstances so far, I have completed close to all that I can on the technical aspect. I have finished coding the mission program, CADing the satellite, and designing the roundel. However, I was unable in this PSR to build my satellite or interact with my community which is a huge part of my project, close to 50% of it. I am unsure if I can complete my project goal going forward but I’m going to try my best. I haven’t gotten any feedback so far because I am at home. |

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

|  |
| --- |
| . |