



## CubeSat: Communications

### Week 1 Progress Report

#### ----- HOURS

Team Member First Last	Hours this Week	Total Hours since Aug 19	Signature you verify that hours of all team members are reported truthfully
Braden Williams	50	50	<i>Braden Williams</i>
Adam Dimaio	14	14	<i>Adam Dimaio</i>
Patrick Robanske	20	20	<i>Patrick Robanske</i>
Ryley Horrocks	10	10	<i>Ryley Horrocks</i>

#### ----- TIMELINE

Design Review	Expected Presentation Date	Status   Completion Date
Conceptual Design Review	9/4/2024	<b>IN PROGRESS</b>
Preliminary Design Review		
Critical Design Review		
Test Readiness Review		
Test Results Review		
Improvement Review		
Final Review		
Exhibition		

## ----- ACTION REPORT

<b>Team Member</b> First Last	<b>Action Report</b> List actions taken this week towards your in-progress review. Give details using Research & Analyze, Design, Prototype, Test, and Report.
Braden Williams	<u><b>Research &amp; Analyze</b></u> <ul style="list-style-type: none"> <li>• Research Rf subsystems and their components</li> <li>• Research FCC regulations and limits</li> <li>• Research Altium best practices for RF design</li> <li>• Research Earth Station Grant</li> </ul>
Patrick Robanske	<u><b>Research &amp; Analyze</b></u> <ul style="list-style-type: none"> <li>• Research Rf subsystems and their components</li> <li>• Research FCC regulations and limits</li> <li>• Research Altium best practices for RF design</li> <li>• Research Earth Station Grant</li> <li>• Began Filling out preliminary paperwork for Earth Station Grant</li> <li>• Began sourcing parts for servo control</li> <li>• Began researching radiating element solutions</li> <li>• Began contact with IT department for all security concerns</li> </ul>
Adam Dimao	<u><b>Research &amp; Analyze</b></u> <ul style="list-style-type: none"> <li>• Researched and analyzed earth station reports from varies universities.</li> <li>• Research FCC regulations.</li> <li>• Contacted Facilities for Installation of ground station.</li> </ul>
Ryley Horrocks	<u><b>Research &amp; Analyze</b></u> <ul style="list-style-type: none"> <li>• Researched and analyzed earth station reports from varies universities.</li> <li>• Contacted a local contractors to gather supplies and equipment.</li> <li>• Contacted Facilities for Installation of ground station.</li> </ul>

## ----- ACTION PLAN

<b>Team Member</b> First Last	<b>Action Plan</b> List actions you plan to take this week towards your reviews. Give details using Research & Analyze, Design, Prototype, Test, and Report.
Braden Williams	<p><b><u>Research &amp; Analyze</u></b></p> <ul style="list-style-type: none"> <li>• Contact local SatCom authorities.</li> <li>• Research Specific materials and equipment for Earth station and module</li> <li>• Write grant summary for our earth station.</li> </ul> <p><b><u>Design</u></b></p> <ul style="list-style-type: none"> <li>• Design setup flowchart and specify parts see what other universities have done.</li> </ul>
Adam DiMaio	<p><b><u>Research &amp; Analyze</u></b></p> <ul style="list-style-type: none"> <li>• Look into components to build the earth station</li> <li>• Contact Facilities about mounting ground station</li> </ul> <p><b><u>Design</u></b></p> <ul style="list-style-type: none"> <li>• Design setup flowchart and specify parts see what other universities have done.</li> </ul>
Patrick Robanske	<p><b><u>Research &amp; Analyze</u></b></p> <ul style="list-style-type: none"> <li>• Maintain contact with facilities and IT for all installation .</li> <li>• Research Specific materials and equipment for earth station and module</li> <li>• Write grant summary for our earth station.</li> </ul> <p><b><u>Design</u></b></p> <ul style="list-style-type: none"> <li>• Design setup flowchart and specify parts see what other universities have done.</li> </ul>
Ryley Horrocks	<p><b><u>Research &amp; Analyze</u></b></p> <ul style="list-style-type: none"> <li>• Research Specific materials and equipment for Earth station and module</li> <li>• Contact local contractors to price out standard housings</li> </ul> <p><b><u>Design</u></b></p> <ul style="list-style-type: none"> <li>• Design setup flowchart and specify parts see what other universities have done.</li> </ul>