

Team Pleiades (LSU) April Status Report

Student Team Demographics						
	Name	Role	Major	Classification	G.D.	Ethnicity
1	David Bordelon	Software Lead	CSC	Senior	Spring 2016	Caucasian
2	Jordan Causey	Mechanical Lead	ME	Sophomore	Spring 2018	Black
3	Joshua Collins	Electrical Lead	EE	Senior	Spring 2017	Caucasian
4	Allen Davis	Mechanical Design, Assistant Project Manager	ME	Junior	Spring 2017	Caucasian
5	Victor Fernandez-Kim	Electrical Design	ME	Senior	Spring 2017	Hispanic
6	Kyle Hamer	Software Design	PHYS	Freshman	Spring 2019	Caucasian
7	Brad Landry	Primary Contact, Project Manager	ME	Junior	Spring 2018	Caucasian
8	Adam Majoria	Software Design	PHYS	Senior	Spring 2018	Caucasian
9	Connor Mayeux	Software Design	CSC	Freshman	Spring 2019	Caucasian
10	Samuel Reid	Electrical Design	EE	Senior	Fall 2017	Caucasian

Table 1: Student Team Demographics

1. Activities of Team Members
 - a. SURMA I failure analysis
 - b. Preliminary design of Mechanical and Electrical sections and Payload Software.
 - c. Pre-PSIP document
2. Issues Encountered
 - a. Due to making a late start on SURMA II (delayed USIP selection announcement and the team's prior obligation to the Solar Eclipse project) the scope of SURMA II was significantly decreased. SURMA II will be a static payload and will not have any motors for horizontal and vertical tracking as was previously planned.
3. Milestones Achieved
 - a. Completed failure analysis on SURMA I and compiled a list of possible improvements.
 - b. Preliminary Mechanical design of payload, including SolidWorks models, working drawings, and weight budget.
 - c. Preliminary power budget and power distribution diagram.
 - d. Tables of downlink telemetry and uplink commands.
 - e. Pre-PSIP document
4. What will be worked on in **May**

- a. Finalize the Preliminary designs that were created in April.
- b. Order parts and begin payload construction once designs are finalized.