

The following states the activities of the CARO team members:

Justin Haxton:

The housing of the CARO payload has been fully fabricated. The housing will be fastened into full form once the electronic components have been secured to the interior of the housing.

Timothy Shewcraft:

The electronic components have been received. I have begun constructing the circuitry, while carefully considering the placement of each component within the housing.

Reed Seamons:

Along with Justin, Reed has been fabricating the housing of the CARO payload. Now that we have received our cameras, Reed has begun testing the functionality of the cameras at the extreme conditions which will be experienced during the HASP flight.

Jonathan Zaloumis:

I've been looking into the image analysis portion of the project and what to do with the data once we receive it. We'll be able to analyze the plant health using an ASU-developed software called davinci. So far, I've used the software with satellite images from ASTER and have successfully processed images to emphasize vegetated areas in Tempe, AZ. Since ASTER is a multispectral instrument, I've been able to use the infrared bands to analyze the vegetated areas. Since CARO will be using both visible and very near-IR, I believe I'll be able to use a subtractive method within davinci to emphasize vegetation areas that we image.

Calley Galarowicz:

Calley has begun the arduino programming process. This involves the sketch which will command the cameras to take simultaneous pictures, as well as the CDHK program which will be utilized by the cameras. In addition, Calley has been maintaining a proactive position as a team coordinator by establishing constant team updates.