

HASP 2014

UND-UNF Payload

Monthly Status Report for February 2014

UND Team

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Students:

Team is waiting for addition of one or two students from UND.

UNF Team

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Students:

- (i) Brittany Nassau (Physics-Electrical Engineering)
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- (ii) Andrew Potts (Mechanical Engineering) will join from March 1, 2014.

UND-UNF team did the following work during February 2014:

- (1) The teams reviewed the comments on HASP 2014 proposal received from Mr. Michael Stewart. We have already replied the answers of all the comments to Dr. Guzik and Michael.
- (2) We got useful information about the GPS from Michael. We are thankful to him for his guidance. We have invited the quote from the suppliers for the GPS (Trimble and Byonics).
- (3) We have explored the possibility to replace the payload body by the fiber glass or carbon composite body. We found that few issues with both fiber glass and carbon composite such as possibility of outgassing at the low pressure and drilling of precise diameter of holes. Therefore, we have decided to reduce the thickness of aluminum payload body by the milling machine in order to reduce the weight of payload body by at least 0.75 lb.
- (4) We have order new UV light sensors to improve the spectral response of light sensors with UV light. We are exploring the compatibility of the new pressure sensor specifications with our microcontroller circuit and PCB.
