

HASP 2013
UND-UNF Payload
Monthly Status Report for June 2013

UND Team

Faculty Advisors:

Dr. Ron Fevig
Email: rfevig@aero.und.edu,
Phone: 701-777-2480

Students Leader:

Marissa Saad
Email: Marissa.saad@my.und.edu
Email: mrzhasaad@gmail.com
Phone: 617-462-0610

Consultant:

Jonathan Snarr
Email: Jonathan.snarr@und.edu
Email: wade@speedhut.com
Cell: 485-851-3572

Brian Badders
Email: brian.badders@my.und.edu
Cell: 814-746-0971

UNF Team

Faculty Advisor:

Dr. Nirmal Patel
Email: npatel@unf.edu
Office Phone: 904-620-1670
Cell: 904-200-2855

Students:

- (i) Kenneth Emanuel
Email: k.emanuel@unf.edu
Cell: 904-607-6034

UND-UNF team did the following work during June 2013:

- (1) Ken of UNF team fabricated three sensors boxes. He used the CNC lath machine for all mechanical work. Fig. 1 shows the pictures of three sensors boxes for the payload of HASP2013. Two more sensors boxes are also fabricated for the backup purpose.

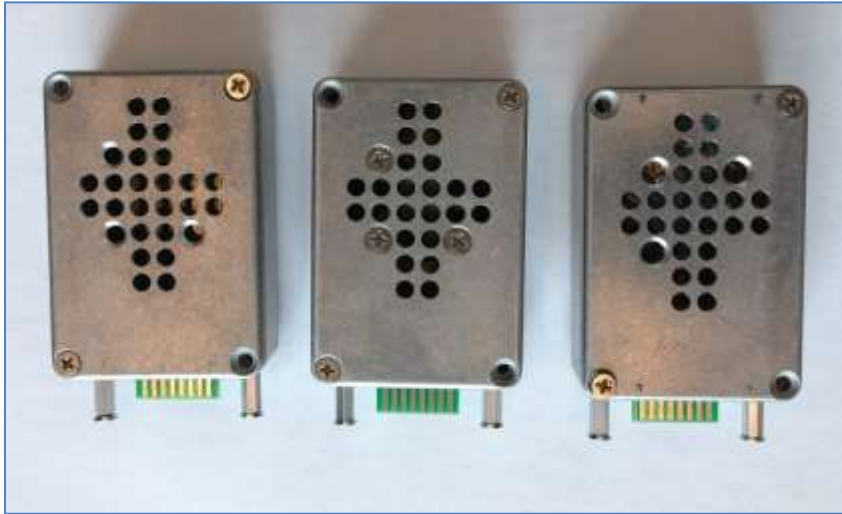


Fig. 1 Three sensors boxes for the payload

- (2) The new series of sensors array (Fig.2) were fabricated, tested and calibrated. Sensors array was mounted on circuit board (Fig.3). The circuit board has heater, temperature sensor and fan.

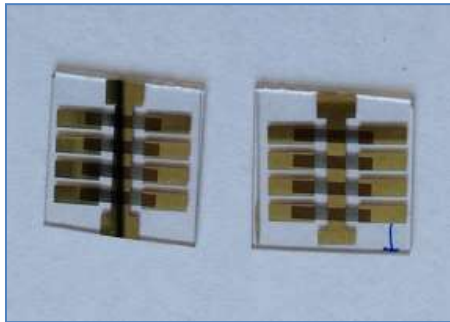


Fig.2 Sensors array



Fig. 3 Sensors circuit boards

- (3) The sensors array circuit board was mounted in the sensors box. The sensors box will be mounted from inside of the payload body. These boxes will be interfaced with the UND team developed microcontroller circuit board.
- (4) UND team is working on fabrication of the microcontroller and radio circuit board.
- (5) The payload body with all sensors boxes will be shipped to the UND team by July 15 so that they can interface the microcontroller card and test the sensors as well as payload body. This will help us to save time at the payload integration and testing workshop to be held at the NASA-CSBF, Palestine, TX.
- (6) Kenneth Emanuel (Student) and Dr. Nirmal Patel (Faculty) from UNF and Jonathan Snarr (Student) from UND will participate the HASP Integration workshop at the NASA-CSBF, Palestine, TX. They will book their air tickets during this week.