HASP 2016
UNF-UND Payload
Ozone Sensors Payload and its Applications (OSPA)

Monthly Status Report for February 2016

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UND Team
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UNF-UND Students Team:

	Name	Gender	Ethnicity	Race	Status	Disability
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1	Brittany Nassau Cell: 904-495-1765 Brittany.Nassau@gmail.com	Female	Non-Hispanic	Caucasian/White	UG-Electrical	No
2	Ken Emanuel Cell: 904-614-2117 kennecom@gmail.com	Male	Non-Hispanic	Caucasian/White	UG-Electrical	No
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6	Chris Farkas Cell:904-413-6047 N00965140@ospreys.unf.edu	Male	Non-Hispanic	Caucasian/White	UG-Electrical	No
University of North Dakota Student						
1	Chris Follette christopher.follette@my.und.edu	Male	Non-Hispanic	Caucasian/White	G-Space Studies	No

UNF-UND Teams did the following work during February 2016:

(i) Team received two comments on HASP 2016 proposal from Mr. Michael Stewart earlier. We are sincerely thankful to him and all reviewers for their useful comments to improve our work. We already replied the answers of two comments last week.

(ii) Chris started working with Ken for all modifications on the PCB and hardware.

(iii) Jesse started discussing with Dr. Patel for fabrication of sensors using a thermal deposition method and a high vacuum system, testing of sensors and payload body.

(iv) Dr. Patel worked with Mr. Joe Klingfus, Engineer from Raith America, Inc and successfully installed an electron beam lithography (Raith make) with a scanning electron microscope (FEI make, Quanta 200D). The electron beam lithography will be used to reduce the size of our ozone sensors from millimeter size to nano size in order to improve the performance of ozone sensors. Dr. Patel is learning this electron beam lithography technique and then he will give training to Jessie and Chris for fabrication of nano size ozone gas sensors. The electron beam lithography attached with SEM and EDAX is shown in following figure 1.

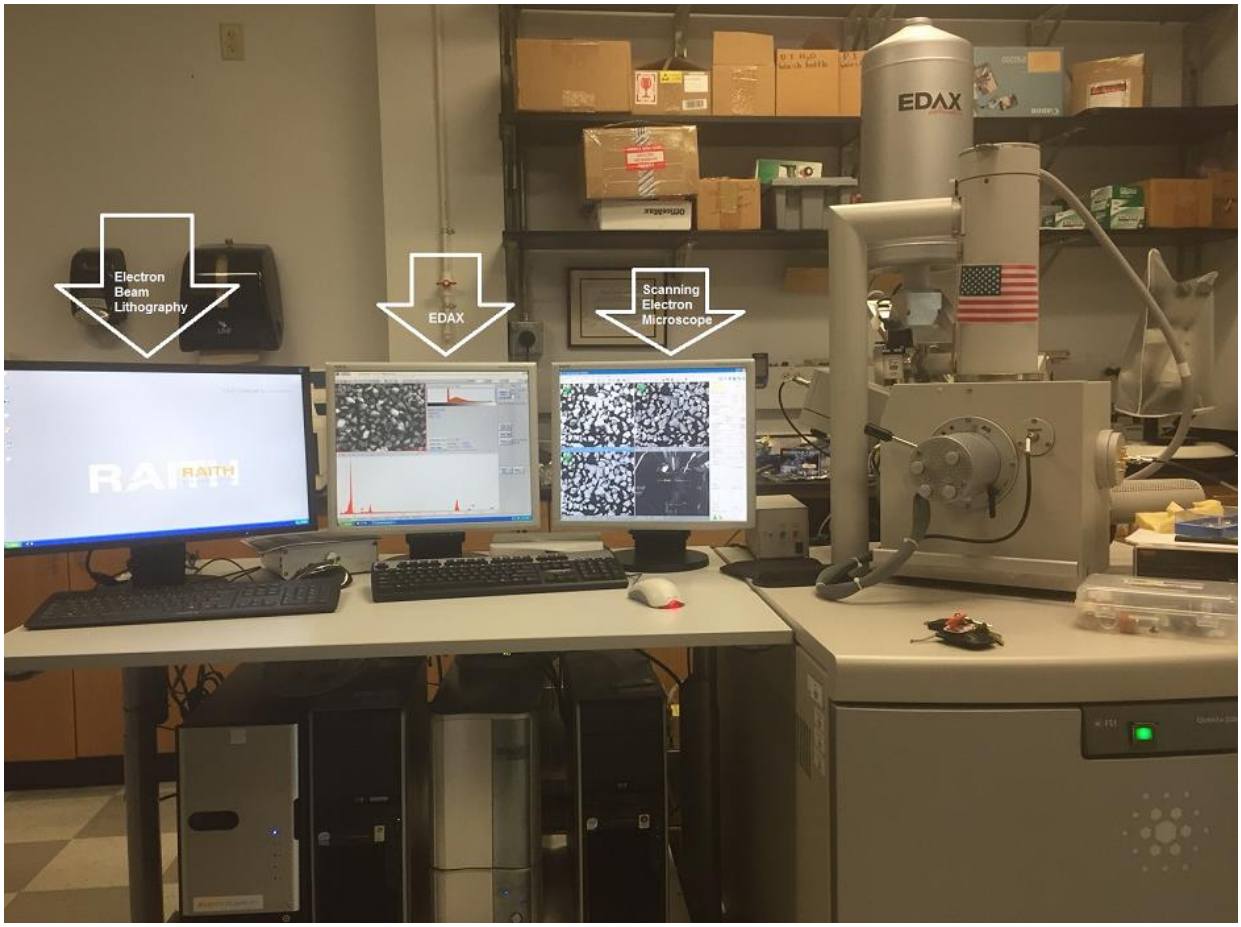

Figure 1 Electron beam lithography attached with SEM and EDA