SOLIDWORKS Modeling of Habitat Additions

(And Highlights of STEM Ambassador Events)

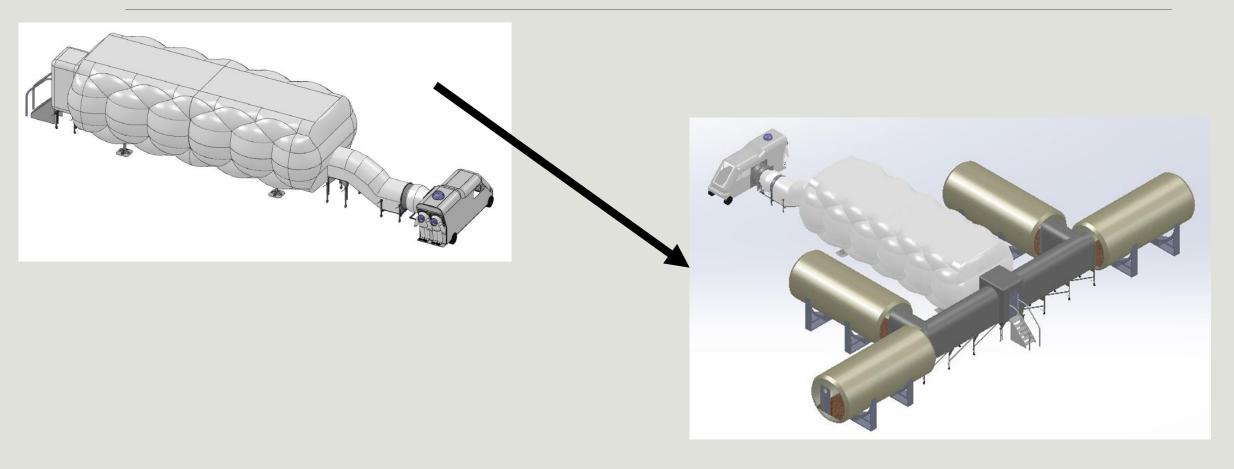
MADDY OLSON

University Habitat Purpose

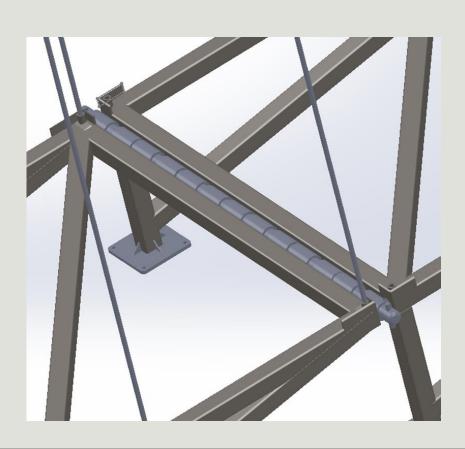




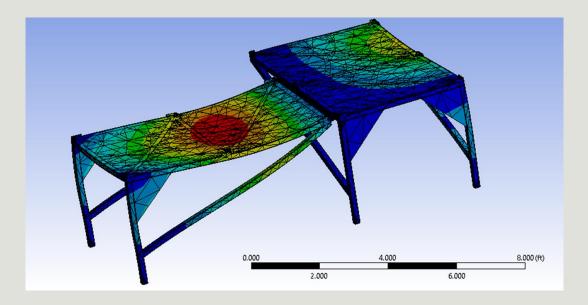
Why Additional Modules?



Hallways and Connections



- 270 lbf on each panel (AVG weight at a S.F. 1.5)
- Animation exaggeration max deflection is 3.41 e-3 in
- Diagonal support shows stress



Fabrication





Future Plans (2017)

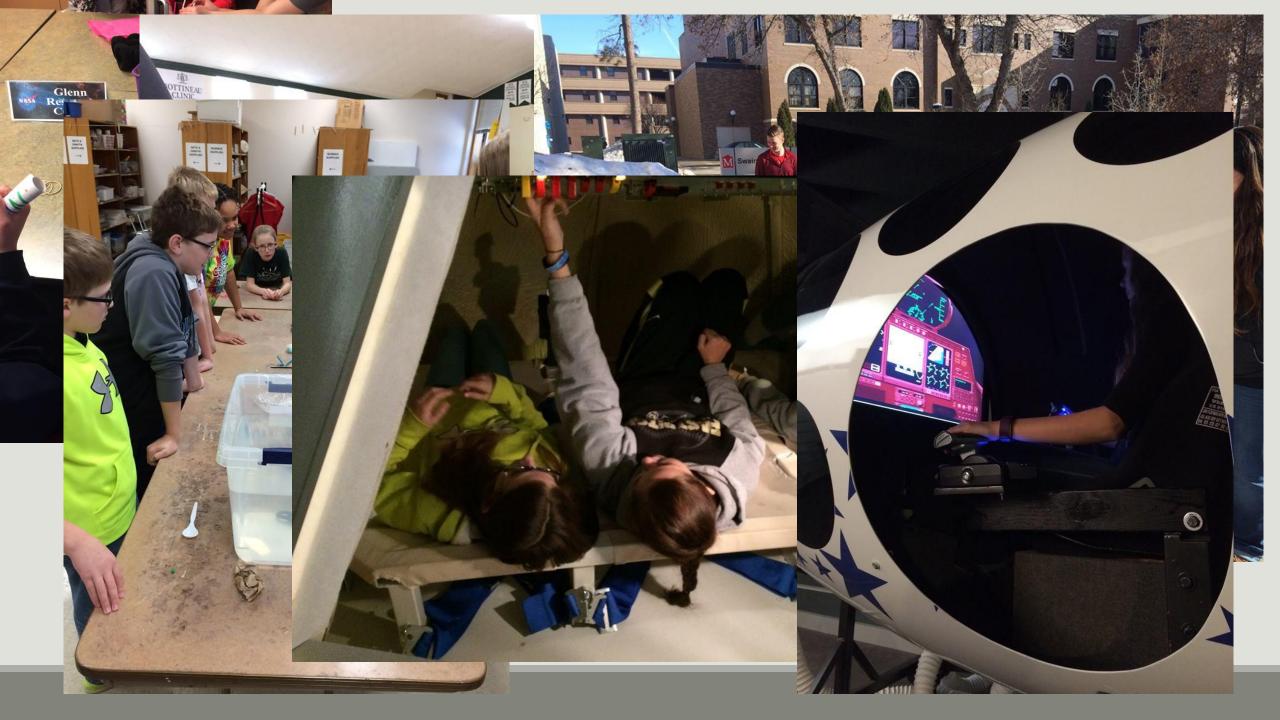
- ☐ Place EVA and Plant Production Modules at the Core Module Location
- □ Complete Geology and Human Performance Modules
- ☐ Complete Hallway Platforms and Insulation
- ☐ Install Temperature/Humidity/Air Quality Regulation and Electronics
- ☐ Furnish with Equipment and Test!

Personal Experience

- Learned to Measure Twice, Cut Once
- ☐ Plan and Organize an Individual Assignment
- ☐ Gained Knowledge on the Conditions of Space and Design to Accommodate the Environement

STEM Ambassador Activities and Tours

- ☐ Tours of UND Facilities
- □ Local Classroom Visits
- Activities Held at UND
- □ Collaboration with SWE, Women in Aviation, Rocket Club



Question? Habitat or STEM events?

