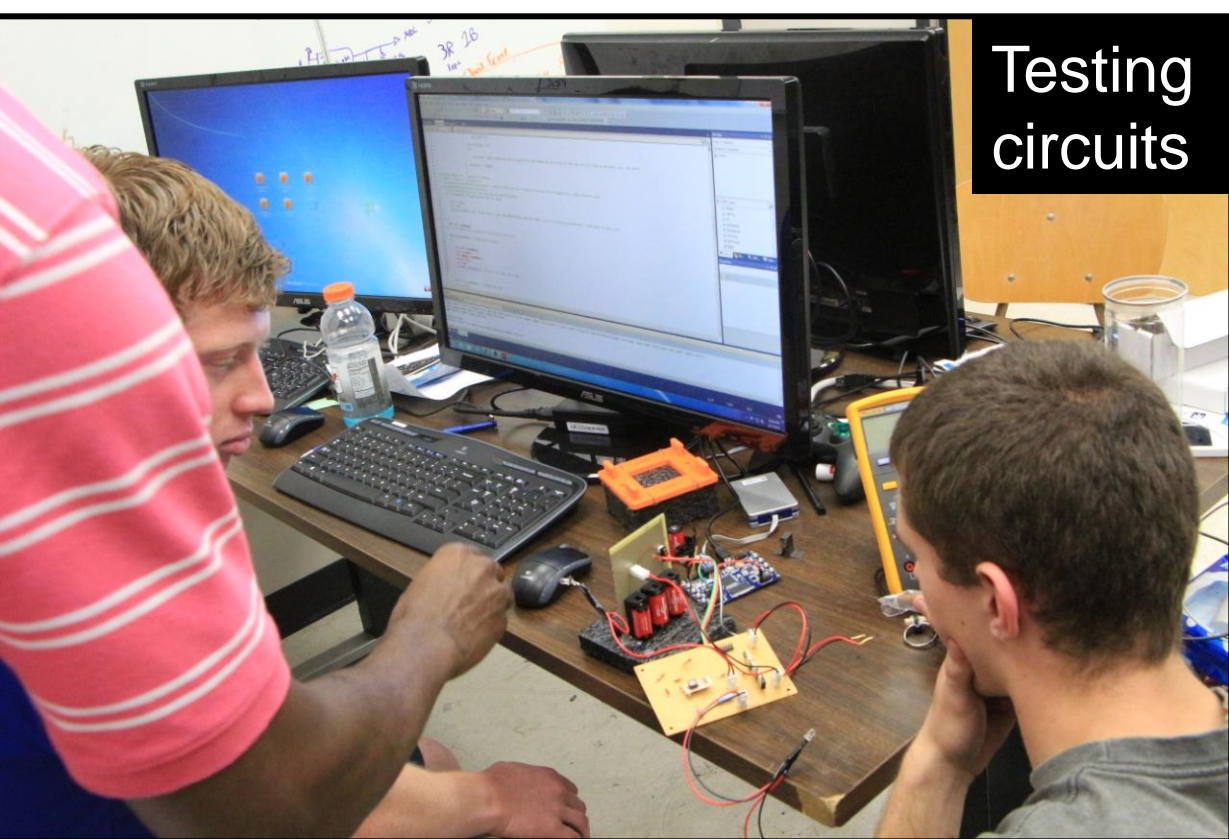


The One Month Project as a Training Tool of the Space Hardware Club

Nathanial Long, Mechanical and Aerospace Engineering
Nathanial.Long@uah.edu

Overview

The One Month Project is a high altitude balloon payload to be designed, fabricated, and flown in a month. Teams of inexperienced engineering students are taught the technical skills they need to tackle larger projects.



Testing
circuits



Soldering
components

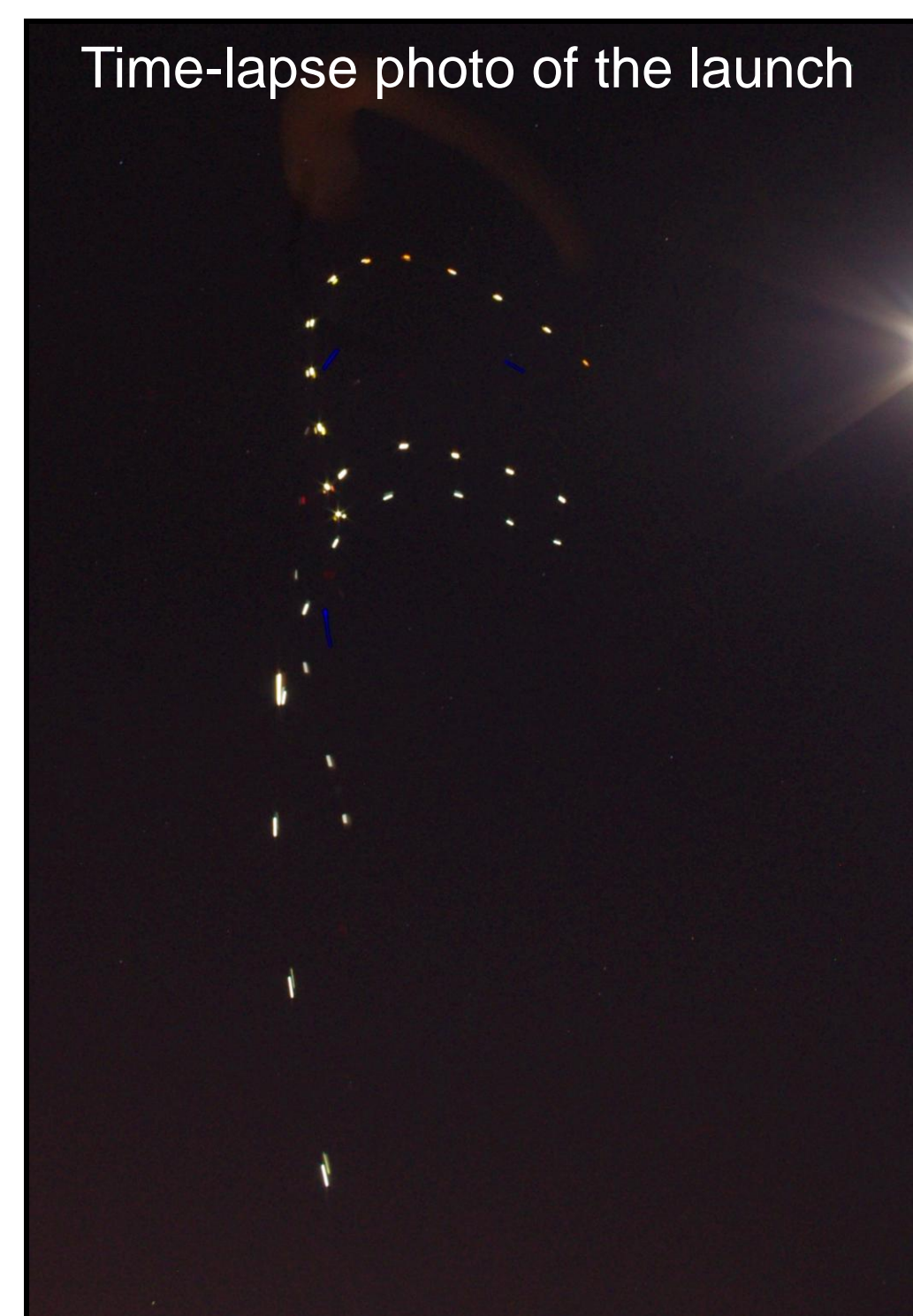
Key Findings

Workshop style classes are used to teach design skills, including:

- Soldering
- Circuit design
- How to read datasheets
- C programming
- Descent control systems
- Structures



Payload on the flight line



Time-lapse photo of the launch

Impact

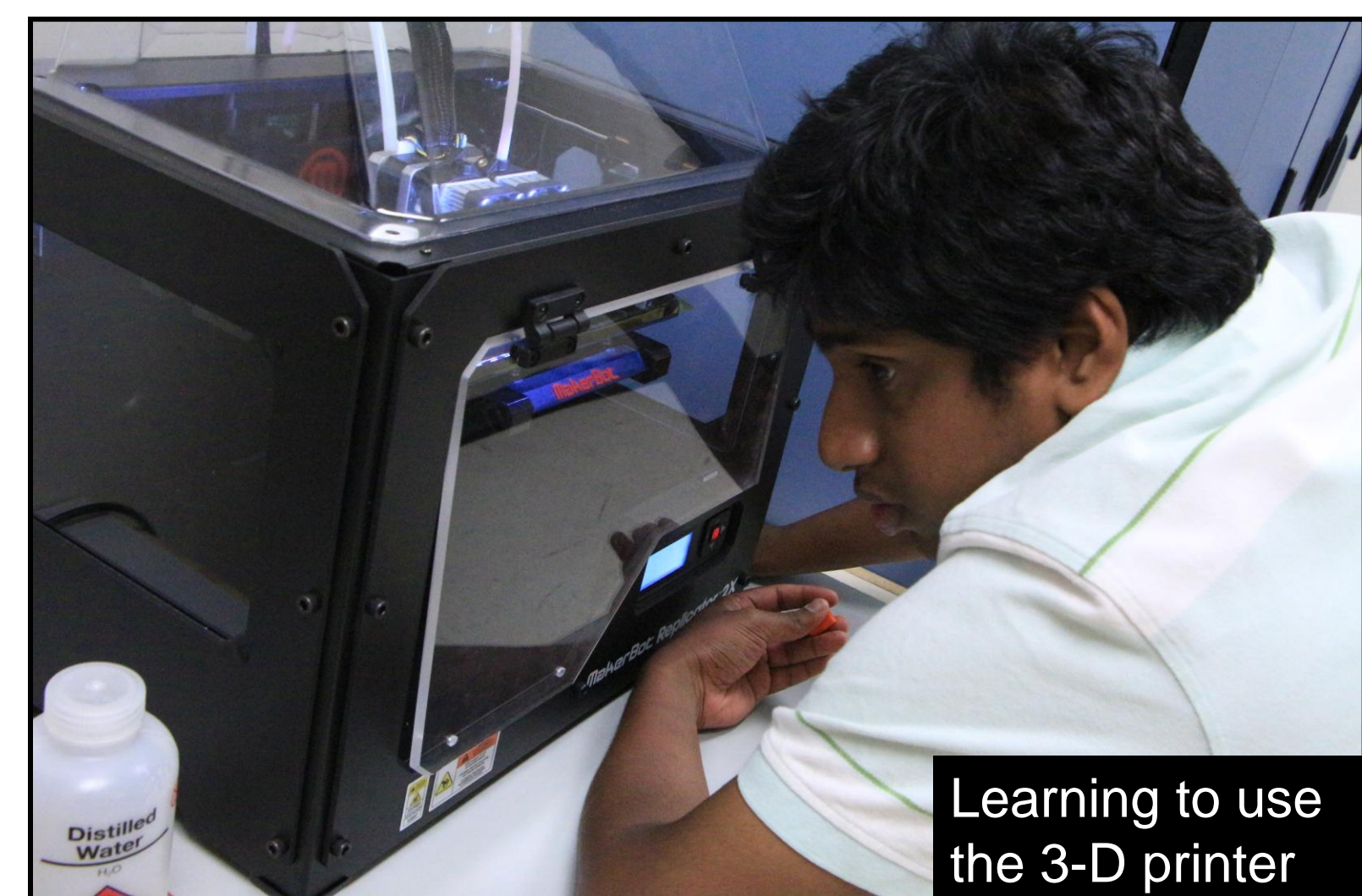
Learning to blink LEDs, read analog sensors, and design a cutdown device provides a background that allows students to succeed both in class and on future projects utilizing the BalloonSat, CanSat, and CubeSat platforms. Over 100 students have been through the One Month Project in the past 2 years.



Attaching the
parachute to
the payload



A team
with their
finished
payload



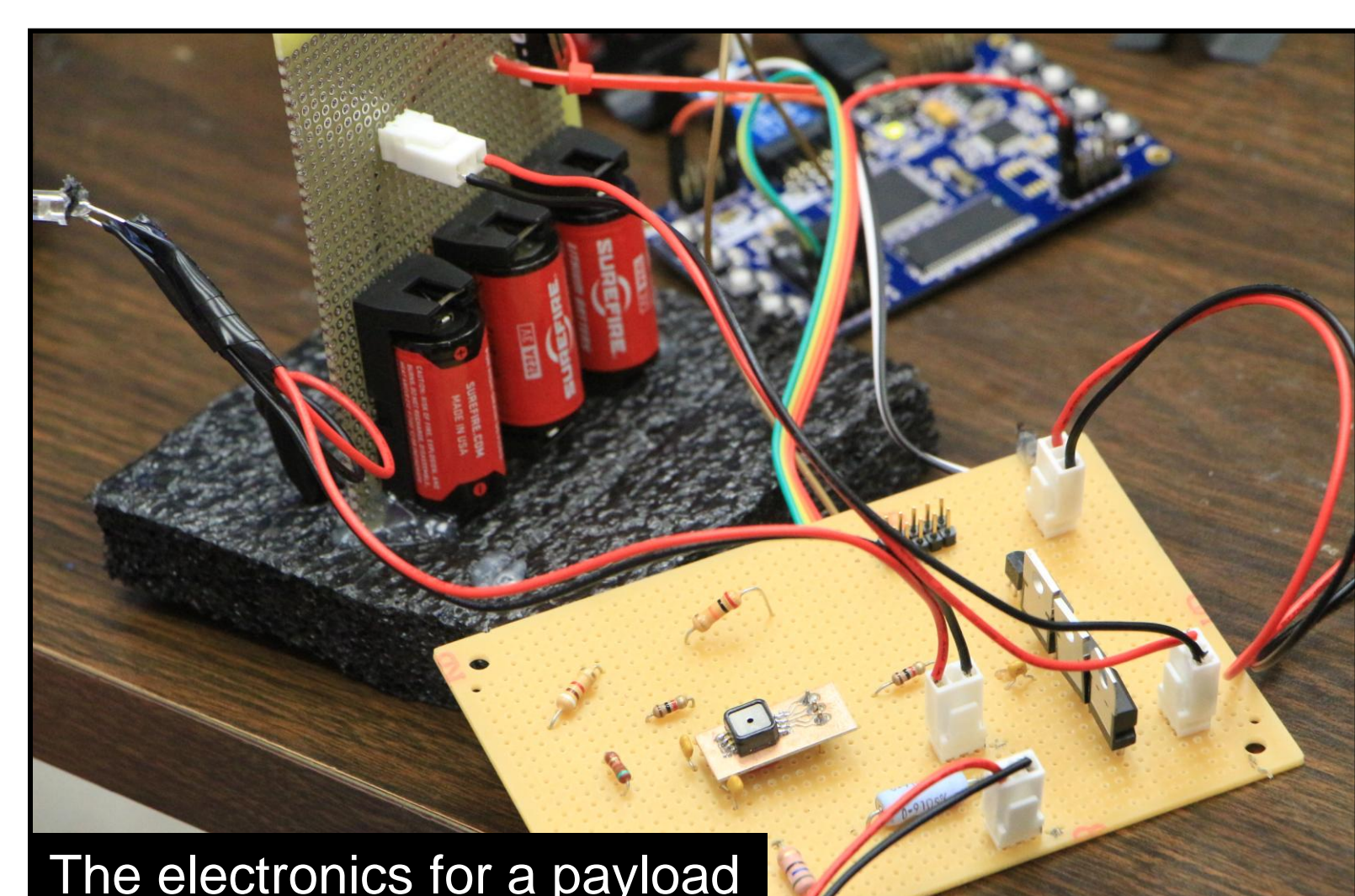
Learning to use
the 3-D printer

Conclusions

In order to remain a leader in the aerospace industry, America must maintain a supply of top-notch engineers. The One Month project is a great introduction to engineering and to the design process. One Month participants go on to place in CanSat Competitions, intern at aerospace companies, and lead the Space Hardware Club.



Filling the balloon on flight night



The electronics for a payload

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*All pictures are from 2014

