

SOCIETY OF PHYSICS STUDENTS (SPS) PRESENTS:

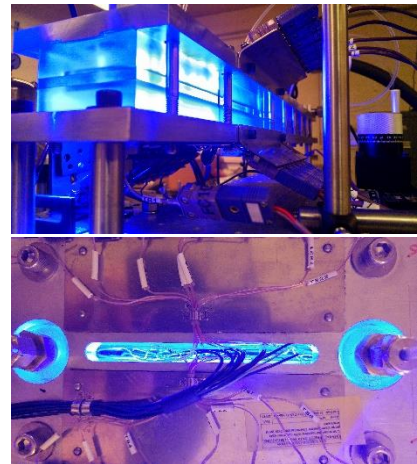
"Interning at NASA"



Aubrey Lokey

Computer Engineering and Physics major, CSU

Two summers ago, I had the opportunity to work at NASA Glenn Research Center as an undergraduate intern. I supported the engineering team conducting ground tests for the Flow Boiling and Condensation Experiment (FBCE). FBCE studies two-phase flow, in which inducing a phase change between liquid and gas can be leveraged to remove extra heat energy from a system. The focus of the research was to explore the behavior of micro-channel coolant systems for electronics and mechanics in spaceflight, where conventional cooling methods are not reliable. My role was to assist with the design and implementation of the electrical, imaging and data acquisition systems for an auxiliary test looking into transient behavior that can happen in two-phase systems during a loss of coolant event, called Critical Heat Flux. This presentation will focus on the experiment, set-up and configuration of the hardware systems, and on what it was like to work at Glenn. Finally, the tips on applying for summer internships at NASA will be given.



WHERE: SR - 151

WHEN: 11:30am-12:15pm

THURSDAY, FEB. 22, 2018

Pizza and Soda are provided!