Tyler Rasmussen

**Award**: Elijah Balloon Payload; $3000.00

**Advisor:** Dr. William Farrow

**Research Topic:** The Elijah Project -- 2017 High Altitude Balloon Project

**Abstract:** The 2017 Wisconsin Space Grant Consortium Elijah High-Altitude Balloon Launch Team was comprised of one student from Lawrence University, two students from the Milwaukee School of Engineering, and one student from the University of Wisconsin – Fox Valley. This year, three members of the team had experience with high altitude balloon launches due to previous participation on either the Elijah Payload or Launch Team, or both. A training session was hosted by Dr. Farrow to familiarize or refresh the team with the physical setup of a launch train as well as how to run track predictions and how to read the jet stream charts. Launches were planned and carried out for the Elijah High-Altitude Balloon Payload Team. This launch was successful, reaching a peak altitude of over 115,000 ft (35 km) above mean sea level.

**Biography:** Tyler Rasmussen is a sophomore at University of Wisconsin-Fox Valley majoring in Mechanical  
Engineering. He presently holds a position in parcel recovery for various airlines at the Austin Straubel  
and Appleton International Airports. Tyler has been elected president of the 2016-17 Chemistry Club on campus and is also a member of the Engineering Club. In his free time, he utilizes his mechanical  
aptitude by customizing his car. After attaining his bachelor’s degree, he plans to further his education in areas such as astrophysics, chemistry, and nanotechnology. Tyler plans to utilize his education by  
working in the aerospace industry.

**Congressional District:** 6

**Congressional Representative:** Glenn Grothman