

## Engineering Club Meeting and Challenge – October 31<sup>st</sup>, 2018

The Engineering club had a Mechanical Engineering guest speaker and an engineering challenge.

Bryan Kent, a Mechanical Engineer Trainee at the Lincoln Electric Company spoke to our students during our club period. For over 120 years, Lincoln Electric has been a world leader in the design, development and manufacture of arc welding products, robotic arc welding systems, plasma and oxyfuel cutting equipment and has a leading global position in the brazing and soldering alloys market. Known as the Welding Experts®, their solutions are used across diverse industry sectors in over 160 countries. Headquartered in Cleveland, Ohio, they operate 63 manufacturing locations in 23 countries and generated \$2.7B in pro forma sales in 2016.

Bryan, a graduate of Cleveland Heights High School was a student in Mrs. Schiffer's Career and Technical Engineering Program at Heights. Bryan was also the Chief Engineer of the Heights Robotics Club. After high school Bryan went to Toledo University and took advantage of the Co-Op program while he earned a Mechanical Engineering Degree.

Bryan shared his path and encouraged the students to extend themselves and get involved. He told them to differentiate themselves from others by doing more, pursuing internships and Co-ops to gain experience. He discussed interviewing, work ethic and professionalism. He also discussed the many opportunities engineers can take within the corporate environment.

He then led the 42 students in the "PAPER BRIDGE" challenge. He is pictured below on the left with senior, Chris Isom who was recently accepted in the Cleveland State University Mechanical Engineering Technology program.



The objective of the challenge was to design and build a bridge that supports the most weight to span a 5 inch distance using only 2 - Index Cards, 2 - Paper Clips, and 6 inches of masking tape.

The constraints included: The bridge must have a span of 5 inches. The roadbed must be at least 1 1/2 inches above the ground. No part of the roadbed, or supports under the roadbed may touch to ground.

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After much design, testing and improvement prizes were awarded.

**Prize Winners were:**

**500 pennies: Tony Mansour**

**300 pennies: Anthony Sweet**

**250 pennies: Charles Rosser and Michael Price**

**200 pennies: Chris Isom and Jordany Ramos**

**150 pennies: Shaun Valentine, Will Young and Leo Yane**



After club period Bryan toured our Engineering Lab and was impressed with the equipment and courses available to our students.



Junior Shaun Valentine and John Poston work on their respective designs.