

Period. 1

Technology Expo

Emily Rogo

I enjoyed visiting the technology expo this year it was very interesting to see and watch big and small machines work and move. I mostly enjoyed making the toothbrush robot with an older girl scout. The top of a toothbrush (Where the bristles are) was used with the bristles faced downward. A battery was placed on top of it and taped down. A small wire was then put on. When you place the wire onto the battery the toothbrush top would move , shake & turn. Another activity I did was with marshmallows and toothpicks, you would have to stick the marshmallows on a toothpick to create a structure that stood very high. The marshmallows were used as an adhesive to stick multiple toothpicks together. I also made a catapult out of 2 popsicle sticks, rubber bands, a water bottle cap and a pom pom. I was surprised by how far the pom pom went and how you can make working machines with household supplies. **The expo was a great experience for me but also a real eye opener to realize how much technology we use on a daily basis.**

April 4, 2017

Dear Lower Hudson Valley Engineering,

When I stepped into the cafeteria filled with inventions I was amazed. I saw tons of inventions! The one that caught my eye the most was an invention based around a balloon. The goal was to propel a balloon through a big and small hoop. I was unable to do this but I still had lots of fun!

The next station I went to was also in the cafeteria. In this station you were allowed to test drive a robot! There was an arena that held the robots. In this arena there was a game with whiffle balls. I even got to meet one mother that had a child on Team Chick, a robot team.

Finally, I went to the gyms! In the gym to the right, I met a group of people that were working on the Tappan Zee bridge. A lady explained to me how the bridge had to be deconstructed one piece at a time so that the water did not get polluted. One side of the new bridge will be done by this summer, if all goes according to plan.

Overall, I had an amazing time at the Lower Hudson Valley Engineering Day. Thank you! I am definitely going next year if you have this amazing event!

From,

Jack Callanan

Jack Callanan

6th Grade

Social Studies - Ms. Caggiano

Felix Festa Middle School

Fiona Verderosa

Period.6 4-7-17 ✓

At one of the tables there was a fish tank with oysters in it and the man who was behind the table said that he was working on the "Billion Oyster Project". I learned that the "Billion Oyster Project" is a group of people who are trying to get a billion oysters in the Hudson River by 2020. The man told me that they are trying to do this because oysters suck up water, clean it and then let it go and that if they could get a billion oysters in the hudson river we would have clean water.

At another table I made a windmill blow with a hair dryer in a building with no wind. If I held the blow dryer at a certain angle pointed at the windmill it would start rotating in circles until I stopped the blow dryer. The lady behind the table told me that I was able to do this because of the electrons in the hair dryer.

At the Con Edison table I conducted light by riding on a bicycle. If I pedaled hard the light bulbs that were connected to the bike on the table next to the bike would immediately turn on and stay on until I stopped. If I pedaled slowly the light bulbs would slowly go on and off continuously.

maria
Lorino

P: 2

APPLY A BAND-AID!!!

On April 2, 2017, I went to the 2017 machine contest. The main object of "apply a band-aid" is simple. First, I went to tech club with mr. Corey, and tech teacher, which put us into groups of 7 or 8. We all designed a machine that will apply a band-aid onto your skin. When I heard about this, I didn't think that it was possible, and I thought it was the WEIRDEST idea, but when I figured it out, it all made perfect sense!

When I got there, there were SO many people than I expected. After I took a tour of the building, I realized that it wasn't only a competition, but they had all sorts of fun things in the 2 gyms. My favorite part was taking all the candy from each station.

After I got back from touring the building, I went back to putting together my machine so that the judges can see what we've been working on. When the judges arrived, we were very VERY nervous. But it turns out they loved our design!!!

While the judges were deciding, i looked around the building once again, and I found cool robots, fidget spinners, balloon experiments, and I even got to build things of my own!!!

When the judges came back we got even MORE nervous. But it turns out, WE GOT AN AWARD!!! My team was super happy.

After that it was time to leave. I was really sad because it was really fun finding out more things I could ever imagine. And I just can't wait till next year!!!

Engineering expo

By:Ellie Taragano P6 Ms. Caggiano

In the con ed exhibit, I rode a bike that created energy. I pedaled as hard as I could. I looked over and saw a light bulb turn on. After doing that I was exhausted. Just for a tiny light bulb to turn on it took a lot of my energy to try to make it turn on. I learned to save energy because it uses up a lot of power just to turn on one light. I also learned that a LED light used the least amount of watts compared to a fluorescent and regular light bulb.

At another exhibit, I created my own bioswale out of food. A Bioswale is a special form of landscaping that captures polluted water rushing off hard surfaces like parking lots, roads or rooftops. The first layer (bottom) was the gravel retention layer and we used chocolate chips. The second layer in a bioswale is engineered soil and we used pudding. The third layer was mulch and we used graham crackers. The fourth layer was topsoil and we used Oreos. The fifth layer was rock and we used cheerios. The sixth layer (top) was a biological treatment via plant and we used parsley. The excavated area ready for construction was the cup.

Another exhibit I saw was a chill smart machine. It took air conditioners and cleaned the fluids in them. Usually they would get rusty but with chiller machine it would reduce the rust. There are different pressures that they use to clean. It detects if there is something wrong with the air conditioner.

I really enjoyed my time at the engineering expo. There was so much things to do. It was a great learning experience. I got to see many diffrent things. I saw cool companies,gadgets,and lots of colleges that was interesting to learn about even though I was too young for that. I would want to continue going to the engineering expo because it was really fun.

Rachel Cohen
Ms. Caggiano
Engineering Expo- Extra Credit

I went to the engineering expo and I had a great time and learned so many fascinating things that I did not know. I thought engineers just made cars, but now I know that there are so many more things that engineers make. This expo opened up a whole new world to me, one that I hope to explore in the future!

At one exhibit, I saw how Engineers make credit cards out of plastic. You can take a flimsy material and cut things out of it, to make things like soda caps. They make other things, even things for spinal fusions!

Other engineers make prosthetic arms and legs. One chemical engineer stated that she understood chemicals better than most people. They understand force. I was able to see models of atoms and create my own atom!

There were 3D printed things as well,, such as key chains that a student actually designed and produced! I also learned that 3D printing makes many interesting things and they make food in space!

Overall, I learned many wonderful things about engineers that I did not know. I did not know that there was chemical engineers, and other engineers that make food! This was an experience that I will never forget. I hope to go next year as well.

