



# MAKING THE Connection TO Career Technical Education

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## Lakeview Engineering class constructs useful items

By Katie Boyle  
Staff Writer

The Career Technical Education (CTE) engineering class is taught by Jolaine Price. She has taught the class for the last four years, but it has been available to students before she took the teaching position. The students draft tools and objects using the help of a 3D design program. These objects are often printed using the class's 3D printer.

"We create art with a function," Price shared.

Every year the class produces items they feel the student body or faculty is in need of.

"The biggest input for our items is the need. Someone will approach a student or a student notices a problem and we produce an item to fix the problem," Price stated.

Since the beginning of the 2016/17 school year, the class has drafted and printed the following useful objects:

### 3D Mathematical Coordinate Plane

When Sue Culver, math teacher, had a hard time getting students to imagine where a point would lie on a 3D coordinate plane, she enlisted the help of sophomore Jackson Wrubel, who designed a 3D co-



The shell for a solar car unveiled at this year's Detroit Auto Show.

ordinate plane for Culver.

"This is useful for my pre-calculus class when I teach 3D coordinate systems. It allows students to visualize it better because before I was taping together three meter sticks," Culver said.

### Exterior of a Solar Car

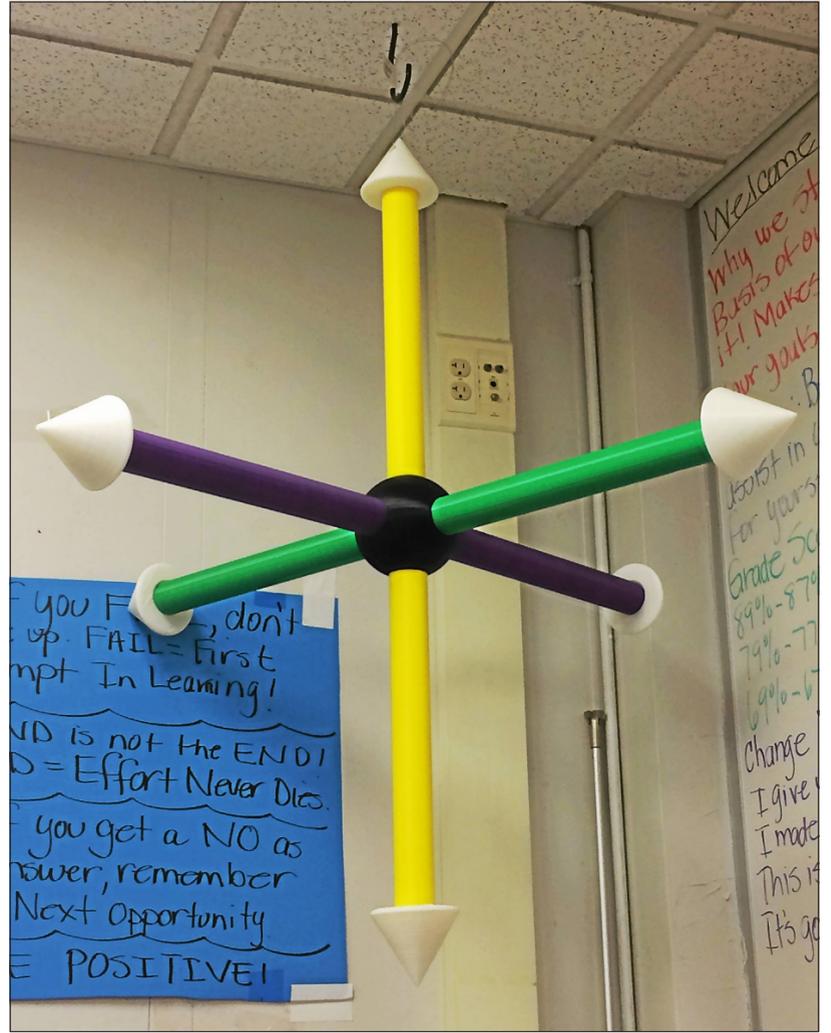
Heroes Alliance Organization, a Detroit-based group with a focus on the community and public education, offered Lakeview students a real-life situation when they asked the class to help create the exterior of a solar car. It is currently a work in progress, but students had the exterior designed for the public to see at the Auto

Show in Detroit. The final product should be done by April 2017. Senior Joe Frank was a part of the design process.

"I started with a 2D sketch and used commands to turn it into a 3D object. I cut the image into 32 planes, and we sent the design to a program that created a mold of the car based on the cat design," Frank stated.

The class is also known for fabricating and selling iPhone cases to the student body as well as Christmas ornaments during the holiday season.

This program allows Lakeview students to produce everyday items, and it exposes students to a career they may hope to pursue in the future.



The 3D Coordinate Plane hangs in Sue Coulver's class and proves as a very useful tool.

## Lakeview automotive prepares students to fill the need for automotive technicians

By Charlotte Bachelor  
Staff Writer

Lakeview High School is one of many schools in Macomb County to offer vocational training to students. One of the most prominent programs is the automotive program lead by auto teacher James Schneider. The students in this program learn valuable skills that they can use to fill the need for automotive technicians. The automotive program is a great resource for students who want to enter the workforce right out of high school and have a career that does not require a four-year degree. This training proves you don't necessarily need a four-year college degree to be successful and make a great living.

Gwynnevere Brown, '17, a lifelong classic car enthusiast and four-year member of the auto club, is one of many promising students in the program.

"After high school I plan on attending Ohio Technical College to pursue classic car restoration. The automotive program has prepared me for this career by giving me hands-on experience and new skills. I've had the opportunity to work on teachers' cars, learn how to run a brake line, and change transmission fluid and oil," shared Brown.

Brown further explained why it so critical for schools to have voca-



One of the many cars restored by Lakeview's Automotive Program

**"This class gives students a first-hand experience where they apply their knowledge from the book on actual projects out in the shop.."**

— Gwynnevere Brown, '17

tional programs, such as auto in schools today.

"A lot of schools are more focused on academics rather than vocational training. More people want to become doctors and lawyers, leaving a shortage of students for trade schools and professionals, especially in the automotive industry," explained Brown.

Schneider sees his class as a valuable resource that allows students to gain a critical hands-on experience while filling the need for automotive technicians. Many of his former students have gone on to attend automotive

training schools or work in the industry after high school.

"This class gives students a first-hand experience where they apply their knowledge from the book on actual projects out in the shop. Learning how things work and getting their hands dirty while combining diagnostic and mechanical skills are the most valuable things they learn in this program," shared Schneider.

The automotive track is one of many valuable career technical educational opportunities Lakeview offers to its students.

## Teacher Cadet helps students decide if teaching is the right path for them

By Sarah Seccombe  
Staff Writer

Teacher Cadet, a Career Technical Education (CTE) class sponsored by Lakeview High School, provides students with an opportunity to experience hands-on teaching in a classroom. Students in the program are able to explore their passion, get an advantage over their peers, or ultimately decide that teaching may not be for them.

Candace Vinson, Teacher Cadet instructor, has been working with the program for nine years. Vinson shared the benefits of the program.

She stated, "Teacher Cadet allows students to make a decision on if they want to be a teacher or not prior to going to college, taking all their prerequisites, then deciding they don't want to be a teacher, and ultimately wasting money spent on classes they don't need."

One Lakeview senior, Katie Couture, has taken two CTE classes. Last year Couture took medical, sponsored by Lakeshore High School, and at the end of the course found out that the medical field was not for her. Her senior year Couture decided to take Teacher Cadet and fell in love.

Couture shared, "I'm so glad I took Teacher Cadet because I was going to go to school to study medicine. I've saved myself so much money by discovering my passion through the pro-



Megan Naglich gives feedback to the students she's working with.

gram and I suggest anyone with an interest in teaching take the class to see if it is the right fit for you."

Lakeview senior, Megan Naglich, is a returning Cadet who works with second graders in Emily Jackson's classroom at Princeton Elementary. Four days a week for half of the day, Naglich is helping in the classroom developing lesson plans and teaching students. However, after being in the program for two years, she has developed a new passion for environmental studies and now believes that she may not be majoring in education as she had originally planned.

Naglich stated, "As of now, I'm not 100% set on one job, but I am so grateful for the two years I spent in the Teacher Cadet program. The class has taught me about responsibility, creativity, professionalism, and how to collabo-

rate with others."

Another Lakeview senior, Madison Gollehur, works with fifth grader teacher Valerie Bogojevski at Princeton Elementary and shared what she has gotten out of the program.

Gollehur stated, "Teacher Cadet has helped me gain experience with individual student situations and developed my classroom management techniques - skills I wouldn't have acquired until my third or fourth year of college."

In the long term, students who take the Teacher Cadet program are saving themselves money and learning tools that prove to be invaluable in developing their work ethic.

These tools are a crucial factor that will separate them from others in not just the education field but in any field they decide to pursue.

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For more information about CTE, contact Shannon Williams at 586-228-3488 or swilliams@misd.net



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44001 Garfield Road  
Clinton Township, MI 48038  
586-228-3300

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