

## HIGH SCHOOL TECHNOLOGY EDUCATION IS CHALLENGING AND PREPARING STUDENTS FOR COLLEGE AND CAREERS

High School students are taking advantage of the various technology courses offered to them at the high school in order to pursue their interests, and college and career paths.

Technology courses that are offered to high school students are as follows:

- Design and Drawing for Production
- World of Technology
- Architectural Drawing
- CAD (Computer Aided Design)
- Materials Processing I and II
- Robotics I and II
- College Principles of Engineering

I had the opportunity to visit three different technology classes at the high school recently; CAD (*Computer Aided Design*), *College Principles of Engineering and Design* and *Design and Drawing for Production*.

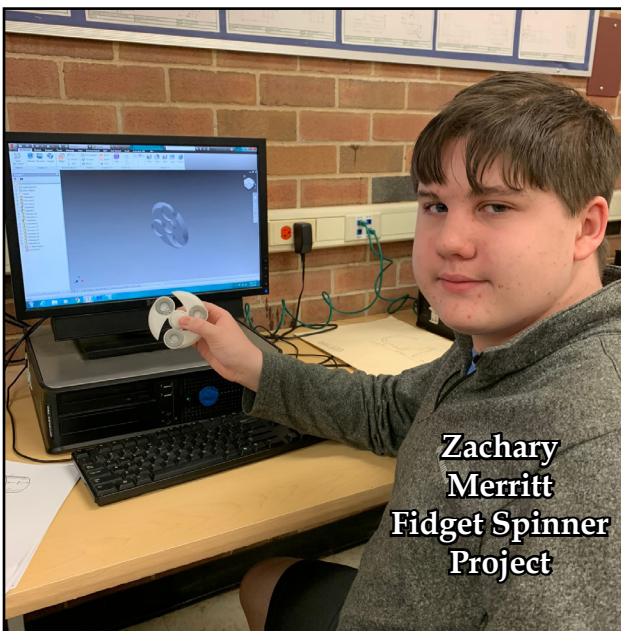
Brian Milleisen teaches CAD (*Computer Aided Design*). This class teaches students how to use the drawing tools in the AutoCAD software program that allows them to draw complicated and detailed parts to exact parameters and scales. After students learn the skills to draw, they are required to complete approximately 40 drawings to satisfy the curriculum requirements. Students will also be asked to design/draw 3-D print and assemble multiple projects such as key chains, fidget spinners, board games, flashlights and motorized race cars.

When students work on a project such as building a flashlight, they measure the components that need to fit inside the flashlight case such as the battery, spring, bulb and wires. Then, they design the case and wire it. They also fit the switch to turn it on and off. Drawings are then printed on the 3-D Printer.

The final project of this class will be a race car. Students will be given all of the components, and design the project with chassis and motor mounts. Something else students have worked on in the class is a motor boat. They designed prototypes of boats for speed after a lesson in hydrodynamics. The class is presently in the test phase for their motor boat. Students also complete a portfolio of 40 drawings as a final project.



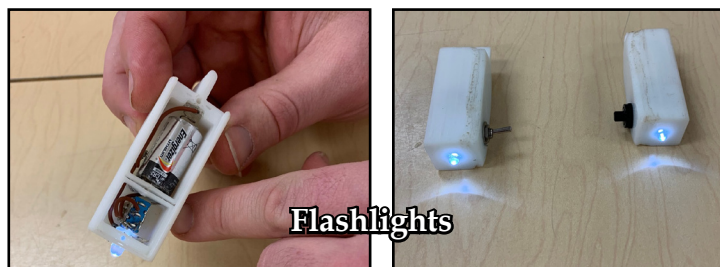
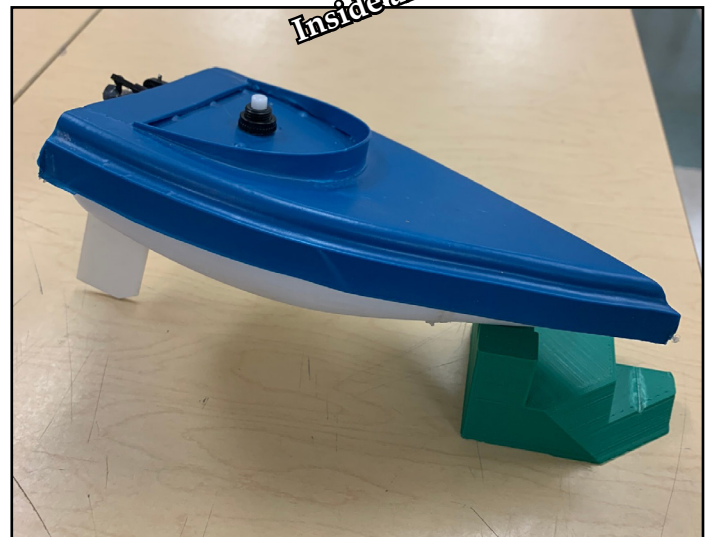
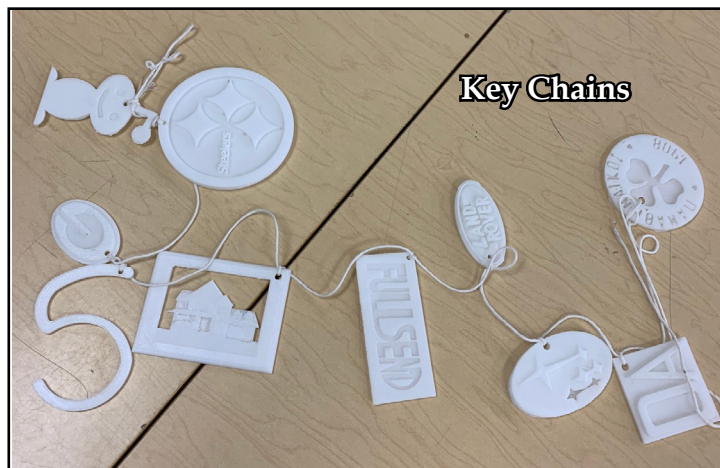
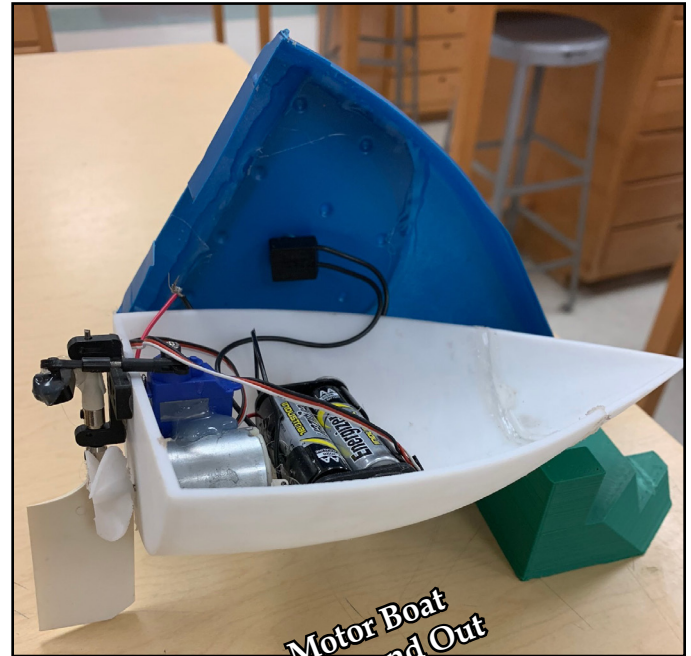
**Brian Milleisen**  
Technology Teacher



**Zachary Merritt**  
Fidget Spinner Project



# CAD Projects



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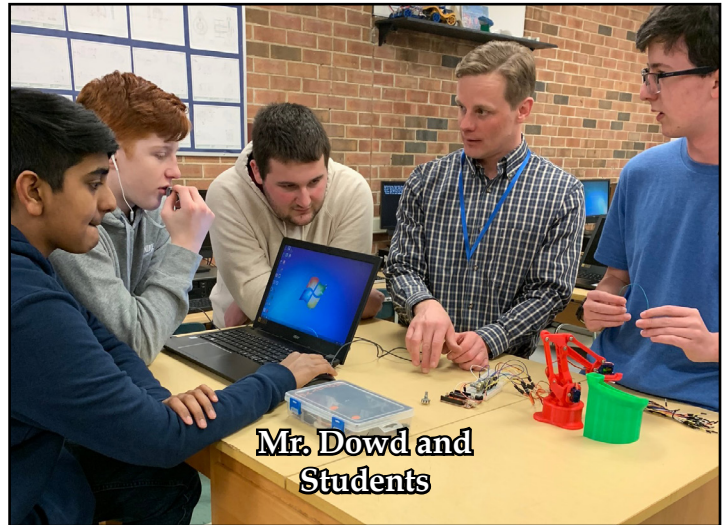
# College Principles of Engineering

Chris Dowd teaches *College Principles of Engineering*. The course is described in the Course Catalog as follows: "In this hands-on, project-based course students will learn about the different fields of engineering including mechanical, electrical and civil engineering. They will utilize the engineering design process to solve problems. Students are able to earn three college credits through SUNY Farmingdale with successful completion of this course."

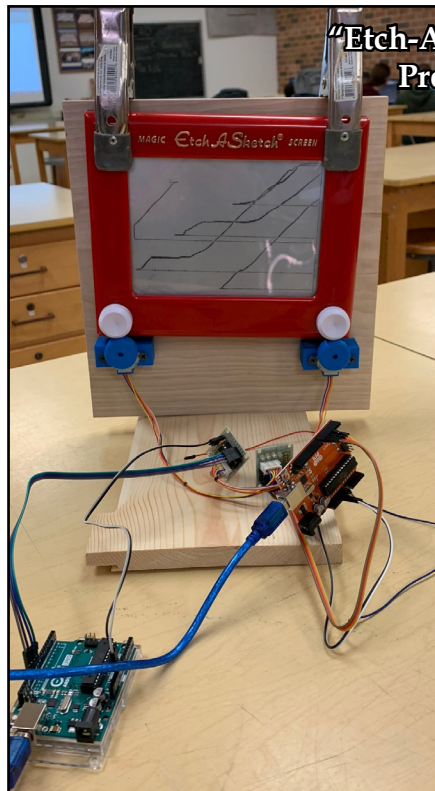
When I visited their class recently, Mr. Dowd was working on a variety of projects with his students. One of the projects was something called, "The Most Useless Machine." This machine consisted of a box with a switch and an arm that rises out of the box and pushes the switch off when you turn it on. The students worked on coding the machine with timing for the arm to come out and turn off the switch.

The students were also working on redesigning a wheel for a kit they were working on with a motor and a drive train. Other projects in the classroom included a robot arm that lifts a ball onto a ramp and then retrieves the ball at the bottom and starts the process over again and programming a machine to work an "Etch-A-Sketch" toy to make diagonal lines which require both wheels of the toy to turn simultaneously.

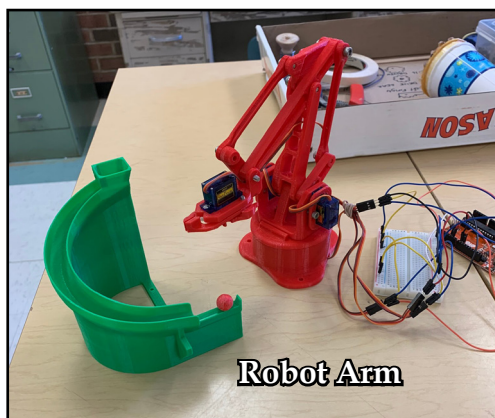
Mr. Dowd also teaches "Design and Drawing for Production," and "World of Technology."



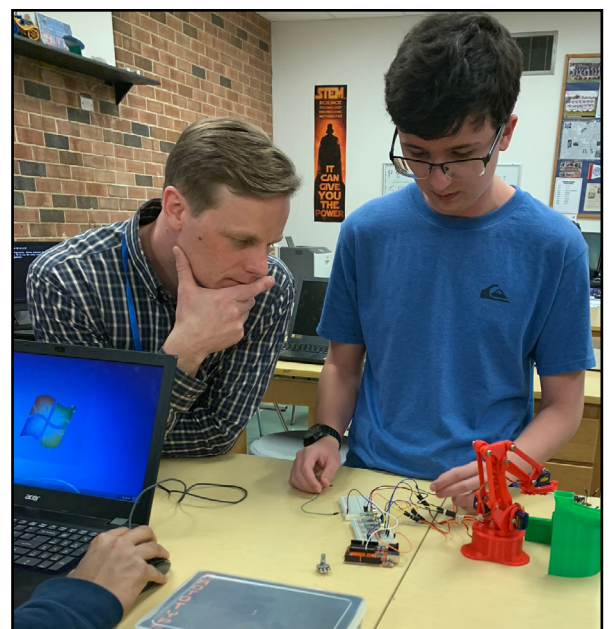
**Mr. Dowd and Students**



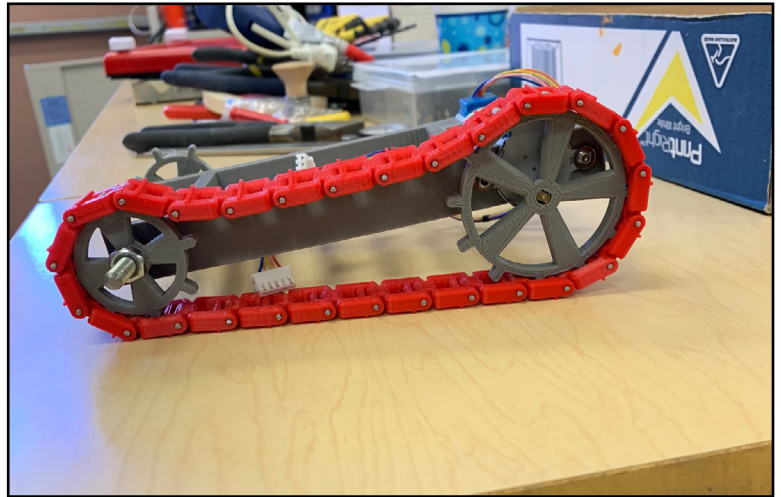
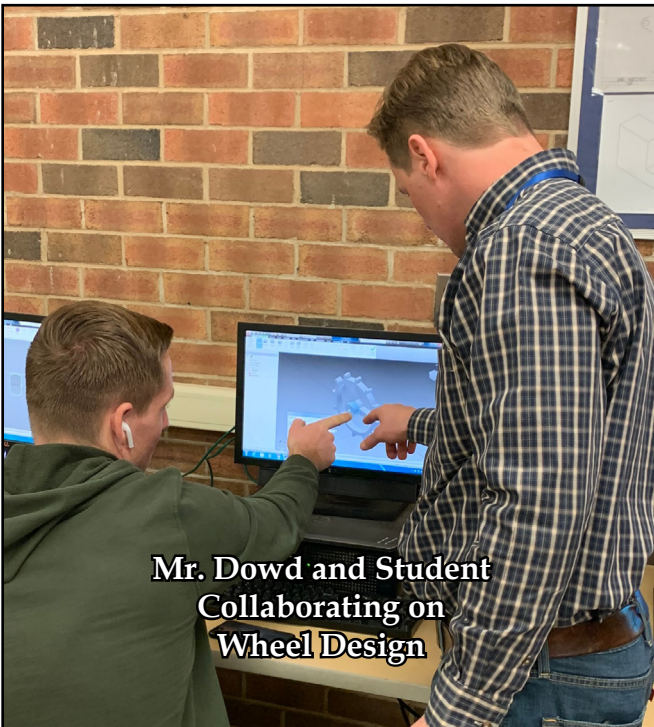
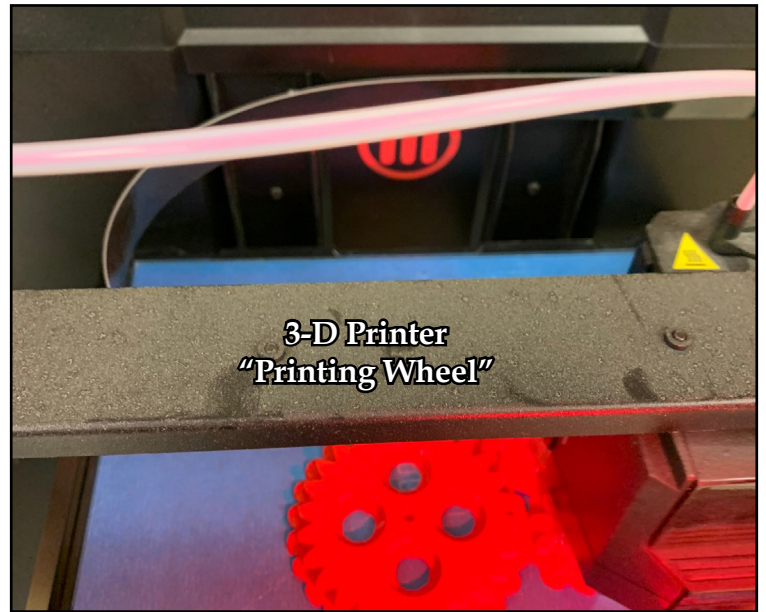
**"Etch-A-Sketch" Project**



**Robot Arm**









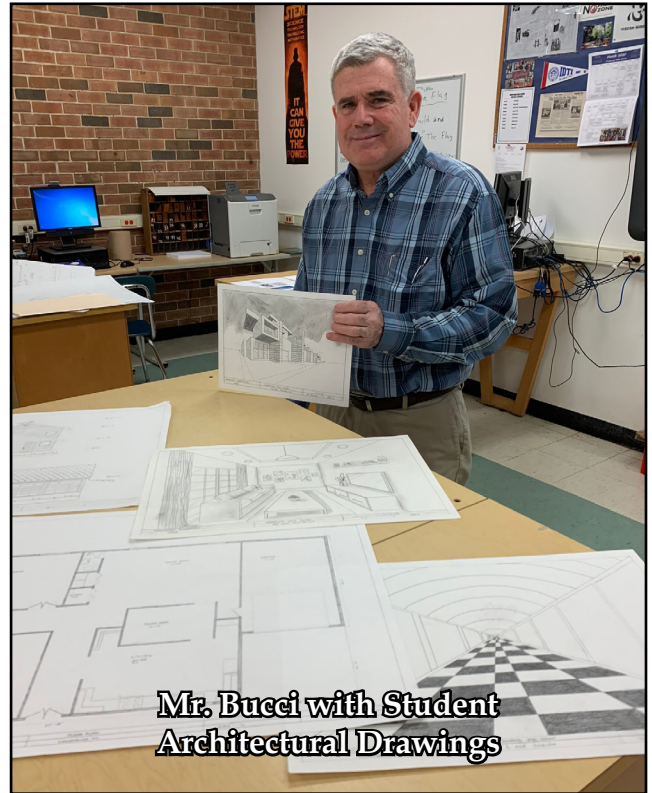
## Design and Drawing Production

Mr. Bucci teaches *Architectural Drawing and Design and Drawing Production* at the high school. He also teaches grade 7 *Technology Education* at the middle school. I recently visited his Design and Drawing Production class. The students were working on a project which they were making out of wood; a desk set which would hold a pen, pencil and cell phone. Also, the students were making the pen and pencil out of wood as well.

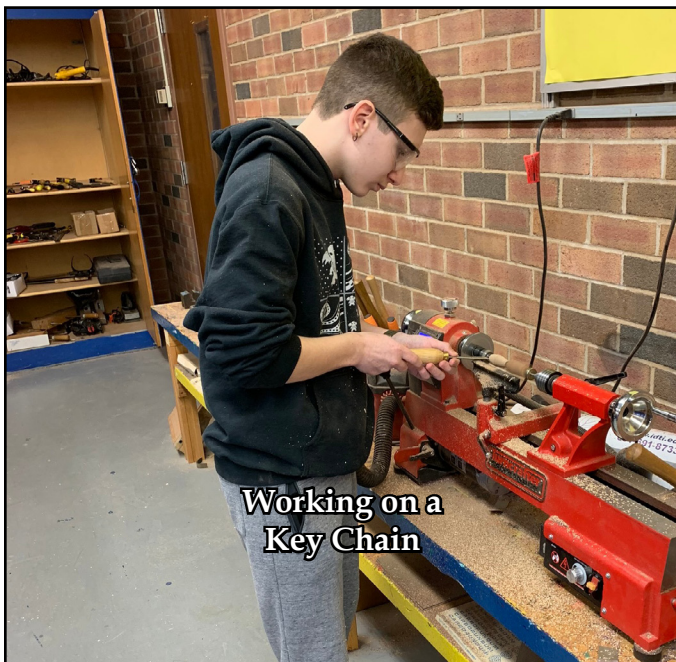
The *Design and Drawing Production* class is a full-year class. It is described in the Course Catalog as follows:

"This course integrates the artistic elements of design with the drafting skills required to produce mechanical drawings. Using the tools of the draftsman, students receive instruction to gain competence in drawing two- and three-view, section and isometric (3-dimensional) drawings. The students use these skills to design various products and then build their designs in the lab to see a full-size model."

Mr. Bucci said that in this class students design the item, make the item and then go back to the classroom and redraw the item as the finished product.



**Mr. Bucci with Student Architectural Drawings**



**Working on a Key Chain**



**Sean Renner  
"Desk Set"  
Under Construction**



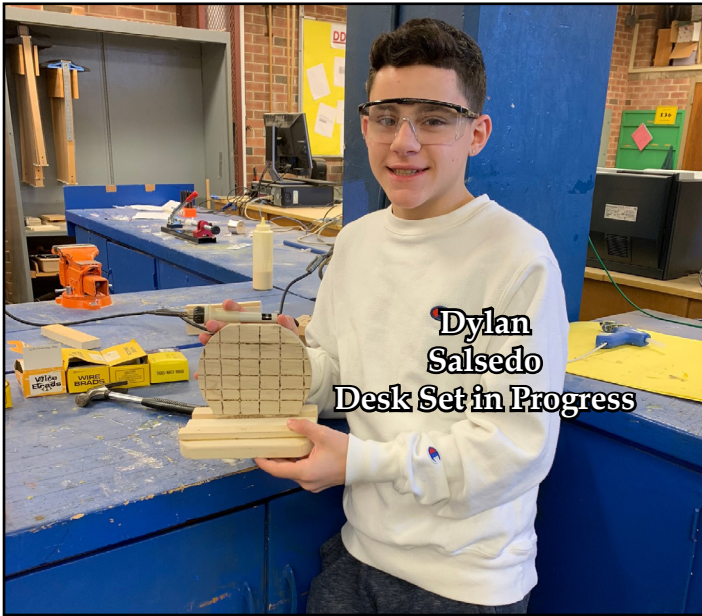
**Key Chain  
in Progress**



**Sean Renner**



# Design and Drawing Production



**Dylan  
Salsedo**  
Desk Set in Progress



**Scoring Lines**



**Evan Delgado**  
Pen/Pencil  
in Progress



**Mr. Bucci  
and Students**



**Nick Marsicano**  
Desk Set in Progress



**Sean Renner**  
Sanding



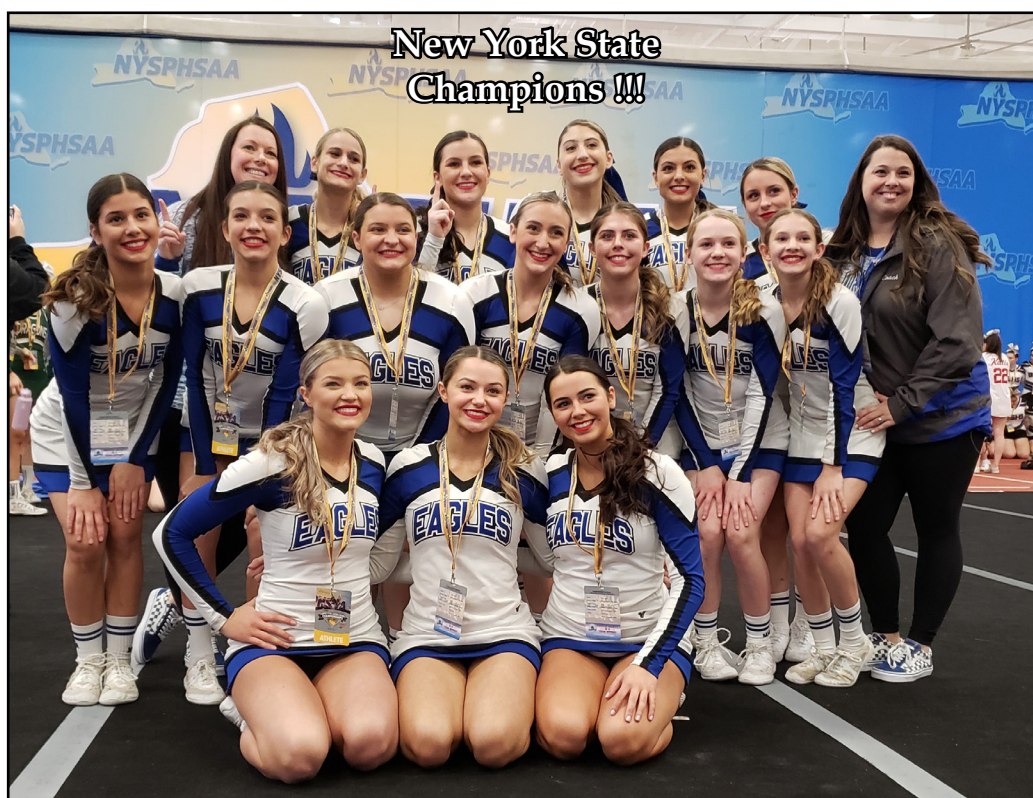
**Danielle  
Byrne**  
Pen in Progress



## VARSITY CHEERLEADERS ARE NEW YORK STATE CHAMPIONS

The Hauppauge Varsity Cheerleading Team captured the New York State D-1 Small School Championship on Saturday, March 7th in Rochester, NY. The competition took place at the Rochester Institute of Technology in the Gordon Field House.

Congratulations to the team on their award-winning performance! The team has made Hauppauge History as they are the first Hauppauge sports team to win a New York State Championship!





# ELEMENTARY ORCHESTRA STUDENTS ENJOY STONY BROOK UNIVERSITY SYMPHONY ORCHESTRA CONCERT

What happens when you mix beginner string players with experienced string players?

Hauppauge's three elementary orchestras visited Stony Brook's Staller Center to enjoy the University Symphony Orchestra's annual Family Concert. Conductor Susan Deaver narrated the concert as the young musicians savored music by Mozart, Saint-Saens, Rossini, Gould, Rimsky-Korsakov, May-erbeer, and Bizet.

An energetic high school violinist played a difficult violin concerto. "William Tell Overture" made the students bounce in their seats. Woofie, Stony Brook's seawolf mascot, was crowned king during the "Coronation March." Elementary Orchestra teacher, Timerie Gatto said, "Perhaps today's elementary orchestra students will become tomorrow's Symphony musicians!"



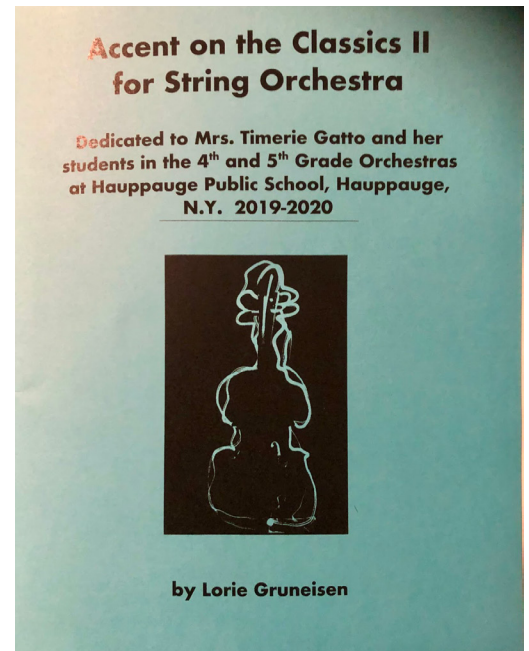


## A DEDICATED GIFT

When Mrs. Gatto chose “Accent on The Classics” for her elementary orchestras to play, little did she know she would gain a friendship and a gift for her students!

Last Fall Mrs. Gatto had a question about Lorie Gruneisen’s orchestra piece “Accent on the Classics.” She emailed Mrs. Gruneisen, who replied with answers and inquiries about Mrs. Gatto’s students. The two began emailing regularly about the schools they teach in (Mrs. Gruneisen teaches piano in Potsdam, NY) and the piece they now shared in common. Mrs. Gatto sent photos of her orchestra students learning Mrs. Gruneisen’s music, and Mrs. Gruneisen responded with stories from SUNY Potsdam’s Crane School of Music, their shared alma mater. A friendship grew, and Mrs. Gruneisen had an idea...

She wrote a new orchestra piece and named it “Accent on the Classics II” - and she dedicated it to Mrs. Gatto and her Orchestra students! Mrs. Gatto teaches at Bretton Woods and Forest Brook. Mrs. Gatto said, “What a selfless act from Mrs. Gruneisen! It will be published and sold to orchestras around the world next Spring. Congratulations to the students!”



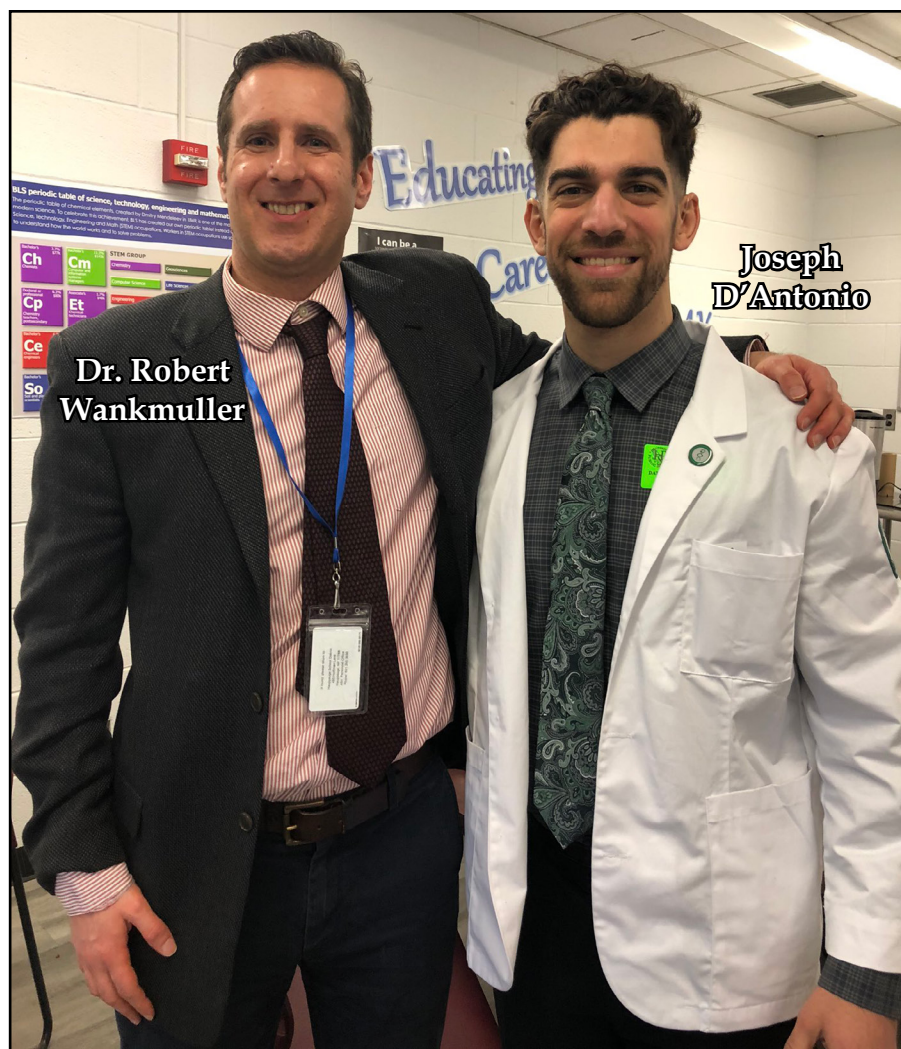


## HIGH SCHOOL ALUMNUS MAKES VISIT HOME

Dr. Wankmuller, Director of Science, Technology and Research, was recently on hand to welcome back his former Chemistry student, Joseph D'Antonio. Joseph is a 2008 graduate and said, "The reason I was so happy to be able to catch up with Dr. Wankmuller is that I had him in 10th grade for Chemistry and he made such an impact on me and that is why I am on this career path."

Joseph is a first-year Pharmacy student at Binghamton University. He came back to speak to our students about careers. Dr. Wankmuller said, "Thanks for coming back to Hauppauge High School to inspire the next generation."

Good luck to Joseph in his schooling and career path.

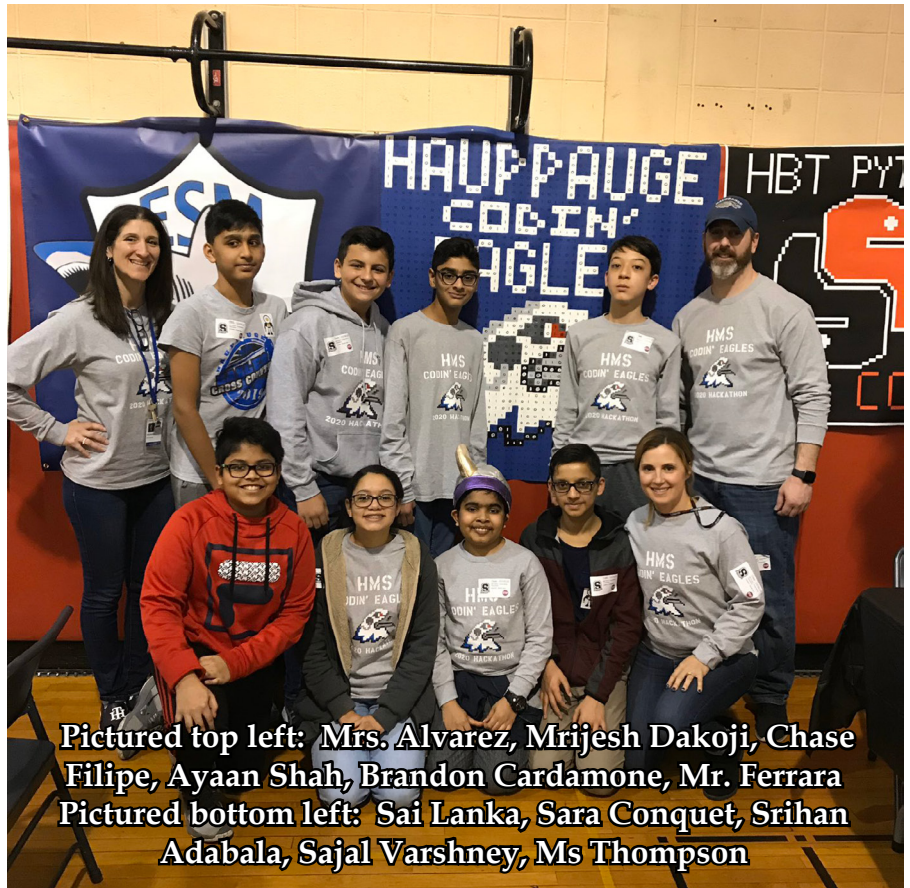




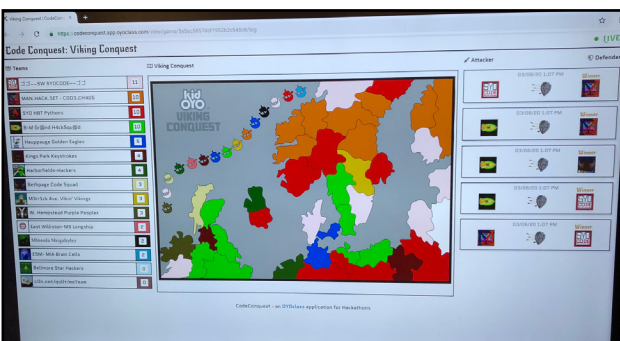
# MIDDLE SCHOOL "CODING EAGLES" ACHIEVE FIFTH PLACE AT HACKATHON

On Friday March 6th, the Hauppauge Middle School Hackathon Team achieved a top 5 ranking in the 2nd Annual Hackathon sponsored by *Kidojo*. The Hackathon is a competitive Coding event where school districts across Long Island compete in a game similar to the board game Risk. Twenty or so Hauppauge Middle School students competed for a spot on the 8 member Hackathon Team over a period of three months. Teacher Michelle Alvarez said, "All of the students who tried out and competed worked so hard. It was so much fun working with the students who both tried out and attended this event. We look forward to participating in the event again next year!"

Congratulations to our "Coding Eagles" on their fifth-place finish!



Pictured top left: Mrs. Alvarez, Mrijesh Dakoji, Chase Filipe, Ayaan Shah, Brandon Cardamone, Mr. Ferrara  
Pictured bottom left: Sai Lanka, Sara Conquet, Srihan Adabala, Sajal Varshney, Ms Thompson





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