



Dream It. Do It. WNY



# Pause ..... Reset

See how our DIDI Community has adapted during Covid-19.

March 2020 - March 2021



CHRIS NAPOLEON



Our thoughts go out to families affected during these difficult times.

# A few words from our board members ...

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I think 2020 was a time of action for DIDI. We stated from the beginning that we needed to make good on our commitment to our stakeholders. We have a goal of informing students, parents, teachers, and counselors about the opportunities in advanced manufacturing. The local manufacturers understood that we needed to take the lead and change as necessary to help DIDI achieve this goal. So we endeavored to make sure that every program we had planned still went off as planned. The method of delivery might have changed but not the enthusiasm, support or results. Through the efforts of the schools, teachers, parents, students, manufacturers, interns and coordinator, we carried out all of our programs with incredible numbers of participants. The enthusiasm is evident in this booklet and shows that when you ring the bell for advanced manufacturing, people will respond.

*Christopher Napoleon, Napoleon Engineering Services  
President/Chief Engineer  
Executive Director, Dream It. Do It. Board*

At Cutco, we had a team that was instrumental in creating our playbook and guiding manufacturing through the pandemic. To be successful during a crisis like Covid-19, you need a champion in your organization who understands the concerns of the people for the issues at hand, develops and manages you through the crisis, keeps the employees comfortable with coming to work, and still allows you to be productive and successful.

*Hugh Freeborn, Cutco  
Director of Engineering*

The words we use and the actions we demonstrate in times of adversity (stressful times/pandemic) are centered around our deeply held values and the resilient culture we have at Cutco. Putting our people and their personal safety first, are deeply held values within our organization. When leaders model these values and make key decisions with this intentional mindset, it cultivates deep levels of trust and respect that bring people closer in times of crisis. Genuinely having high levels of care and concern for each other is who we are. It has only become more vivid during the last year. The examples that I have witnessed during this time are what I would call “side by side leadership”. People from all areas of our organizational family, stepping up and stepping in to support each other when their help is needed. You can get through anything when you have this type of environment and we are so blessed to have it. We will do everything we can do to protect it moving forward.

*Brian George, Cutco  
Human Resources*

Although 2020 was a challenging year, Eaton in Olean has been able to stay open, keep our employees safe and grow our business. Eaton provided great guidance and resources but ultimately it was our employees that did the work. Every day while coming to work, wearing their masks, staying 6 feet apart, washing their hands and following all other safety precautions helped keep themselves, their families and our communities safe during this pandemic.

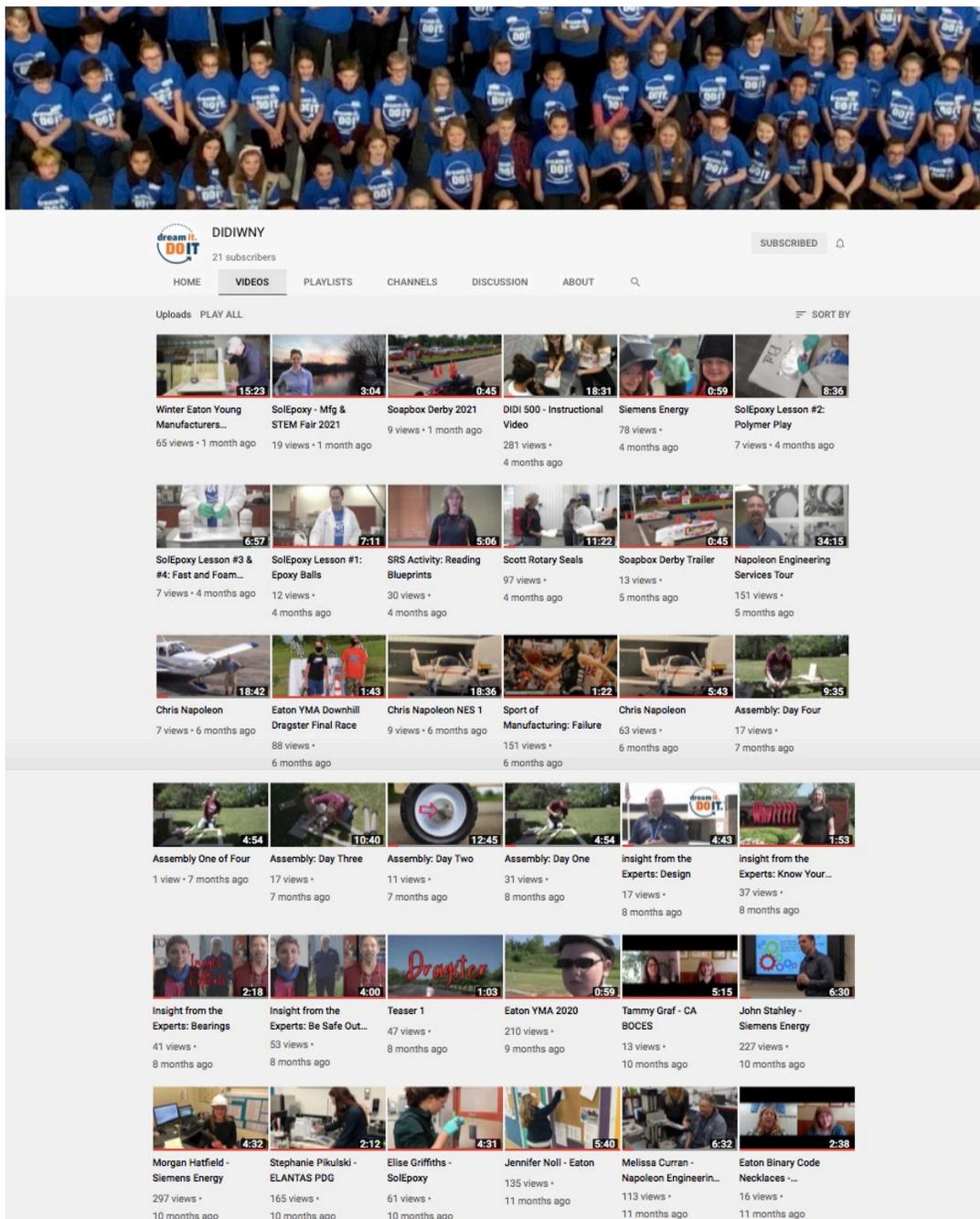
*Jennifer Clarke, Eaton  
Human Resources Manager*

# YouTube Channel - DIDIWNY

Over the years, our teachers have been inspired by presentations and conversations during tours with our local manufacturers. Many have asked DIDI for videos about what our manufacturers make, what jobs are available, and stories about professional pathways. They wanted to share these videos with their students

and fellow teachers. This past year was the best time to do it! We started with our *Celebrating Women in Manufacturing Videos*, since our event was postponed in March of 2020. We then created the YouTube channel that now has almost 40 videos (with more to come!) to keep in touch with students and teachers.

Our videos feature local manufacturers being interviewed, facility tours, instructional videos, *Sport of Manufacturing Videos*, upcoming events, overviews, and more. Thank you to John Tomerlin, Phil Farris, and our many students and manufacturers featured in our videos. Be sure to subscribe!



The screenshot displays the YouTube channel page for DIDIWNY, which has 21 subscribers. The channel is categorized under 'VIDEOS' and features a grid of 24 video uploads. Each video thumbnail includes a title, duration, view count, and upload date. The videos cover a wide range of topics related to manufacturing, including educational lessons, factory tours, and event coverage.

Video Title	Duration	Views	Upload Date
Winter Eaton Young Manufacturers...	15:23	65 views	1 month ago
SolEpoxy - Mfg & STEM Fair 2021	3:04	19 views	1 month ago
Soapbox Derby 2021	0:45	9 views	1 month ago
DIDI 500 - Instructional Video	18:31	281 views	4 months ago
Siemens Energy	0:59	78 views	4 months ago
SolEpoxy Lesson #2: Polymer Play	8:36	7 views	4 months ago
SolEpoxy Lesson #3 & #4: Fast and Foam...	6:57	7 views	4 months ago
SolEpoxy Lesson #1: Epoxy Balls	7:11	12 views	4 months ago
SRS Activity: Reading Blueprints	5:06	30 views	4 months ago
Scott Rotary Seals	11:22	97 views	4 months ago
Soapbox Derby Trailer	0:45	13 views	5 months ago
Napoleon Engineering Services Tour	34:15	151 views	5 months ago
Chris Napoleon	18:42	7 views	6 months ago
Eaton YMA Downhill Dragster Final Race	1:43	88 views	6 months ago
Chris Napoleon NES 1	18:36	9 views	6 months ago
Sport of Manufacturing: Failure	1:22	151 views	6 months ago
Chris Napoleon	5:43	63 views	6 months ago
Assembly: Day Four	9:35	17 views	7 months ago
Assembly One of Four	4:54	1 view	7 months ago
Assembly: Day Three	10:40	17 views	7 months ago
Assembly: Day Two	12:45	11 views	7 months ago
Assembly: Day One	4:54	31 views	8 months ago
Insight from the Experts: Design	4:43	17 views	8 months ago
Insight from the Experts: Know Your...	1:53	37 views	8 months ago
Insight from the Experts: Bearings	2:18	41 views	8 months ago
Insight from the Experts: Be Safe Out...	4:00	53 views	8 months ago
Teaser 1	1:03	47 views	8 months ago
Eaton YMA 2020	0:59	210 views	9 months ago
Tammy Graf - CA BOCES	5:15	13 views	10 months ago
John Stahley - Siemens Energy	6:30	227 views	10 months ago
Morgan Hatfield - Siemens Energy	4:32	297 views	10 months ago
Stephanie Pikulski - ELANTAS PDG	2:12	165 views	10 months ago
Elise Griffiths - SolEpoxy	4:31	61 views	10 months ago
Jennifer Noll - Eaton	5:40	135 views	11 months ago
Melissa Curran - Napoleon Engineerin...	6:32	113 views	11 months ago
Eaton Binary Code Necklaces ...	2:38	16 views	11 months ago

# Soapbox Derby

2020/2021

The Ralph Wilson Foundation STEM 2035 grant has allowed our area to bring back the beloved Soapbox Derby to our area. Prior to COVID-19, STEM 2035 Mfg Clubs were busy building their cars, using the official kits and adhering to strict rules, with a focus on precision, lean manufacturing, and teamwork. One Girls in Mfg club member came in second in the race in Jamestown in 2019!



Despite the restrictions and closings, our Soapbox Derby Program is still up and running! In January of 2020, our Olean Middle and High School Mfg clubs started working on their Soapbox cars by walking over to Jamestown Community College (Cattaraugus Campus) after school.



When the schools closed in March 2020, we were not able to access the Soapbox cars but we did manage to deliver Mini-Soapbox Kits to all of our Mfg Club members.

As of January 2021, the Soapbox cars are being built with the help of Bob Sherburne of Cutco, Dave Suain of Portville, and Chris Kenyon of ALCS. Portville and Allegany have managed to start their after-school clubs and are working together to build their cars.



We have also distributed seven cars to OIMS club members' homes, where parents are supervising the children while building their cars.



Devin Nichols of Hinsdale has been designing the logos for the cars as a project for his CA-BOCES graphic design class. Max Gross's class at CA-BOCES has been painting some of the cars, as well as Ken Austin from Pine Grove Collision in Bolivar. Pierce Steel has kindly offered to make the weights for the Soapbox cars.



We hope to have a race here in Olean then compete in the Jamestown race in June. Cattaraugus County now has 15 official Soapbox Derby Cars. Start your engines!

# Guidance Counselors

Allegany and Cattaraugus Counties

Despite a few delays due to COVID-19, we have definitely made progress with the area guidance counselors. In February and early March, we were able to have a series of panel presentations and discussions in two CA-BOCES locations. Area manufacturers gave a panel presentation and were open to questions. At CA-BOCES in Olean, we were treated to a lovely

lunch, prepared by the Culinary Arts students. In Belmont, we received a tour of the facilities where our manufacturers learned of some innovative programs on the horizon.

Our plans were put on hold when the schools moved to remote learning but in September and October of 2020, we managed to have some great facility tours, with physical distancing and masks.

Counselors were welcomed for meetings in the Mazza Training Center and toured Napoleon Engineering Services, Scott Rotary Seals, Pierce Steel, and Mazza Mechanical Services. We were able to discuss the importance and value of after school Mfg Clubs and programs and the counselors plan to encourage their students to attend. We hope to continue our Guidance Counselor program in the spring and fall of 2021.



# Girls in Mfg Day

March 2020

The Eaton Girls in Mfg Day, planned for Saturday, March 28 at Jamestown Community College, was postponed due to the pandemic. We had the day planned, starting with our keynote speaker Paula Snyder, Dean of the Cattaraugus County campus of JCC. A rotation of hands-on STEM related activities were also planned, including the following: Messy Science with Shannon Albert of Cuba-Rushford Central School; CNC machining, robotics, and tooling with Tim Griffin, Xavier Smith and a number of energetic female JCC students; Binary Code Necklace project with a team of programmers from Cutco; The Science of Ice-cream with Stephanie Pikulski of ELANTAS PDG, the SolEpoxy Team, and Heather Price from the local

ice-cream shop; Siemens STEM Pipeline with Stephanie Bell; and STEM at your local library with Rachael Schultz.

We also decided to create a series of videos, Celebrating Women in Manufacturing. This series of videos allowed the girls to learn about the women they were going to meet at the Girls in Mfg Day and at their Girls in Mfg club meetings. We continue to interview women in manufacturing and update regularly. Please visit our YouTube Channel DIDIWNY.

The kits had already been purchased for the Binary Code Necklace project so we contacted the parents and students who had signed up for the event and distributed the kits to each student

in Olean, Allegany, Portville, Cuba, Wellsville, Salamanca, Shinglehouse, and more. As we started to realize how long the students would be off school, we decided to involve the Girls in Mfg Clubs from Portville, Cuba, and Olean. Over 100 Binary Code Necklace kits were delivered throughout Cattaraugus and Allegany counties as well as Northern PA.

To keep our Soapbox Derby program alive (through the Ralph Wilson Foundation) mini Soapbox Car Kits were delivered to all STEM 2035 club members. Club Champions and DIDI staff delivered the kits to front doorsteps, mailboxes and one other creative method: Delivered by the school bus with lunch!



## YouTube DIDIWNY

Celebrating Women in Manufacturing ▶ PLAY ALL



**Morgan Hatfield - Siemens Energy**  
DIDIWNY  
294 views • 9 months ago



**Stephanie Pikulski - ELANTAS PDG**  
DIDIWNY  
161 views • 9 months ago



**Elise Griffiths - SolEpoxy**  
DIDIWNY  
54 views • 9 months ago



**Jennifer Noll - Eaton**  
DIDIWNY  
134 views • 9 months ago



**Melissa Curran - Napoleon Engineering Services**  
DIDIWNY  
107 views • 9 months ago

Early in the pandemic, a shortage of PPE in our community led to an engineering challenge for SolEpoxy. The SolEpoxy team sprang into action, designing a UVC sanitizer box that would inactivate the virus using solar radiation. Articles from the Journal of Virology and Nebraska Medicine were shared with other manufacturers, showing how UVC bulbs could help sanitize and decontaminate N95 masks for reuse.



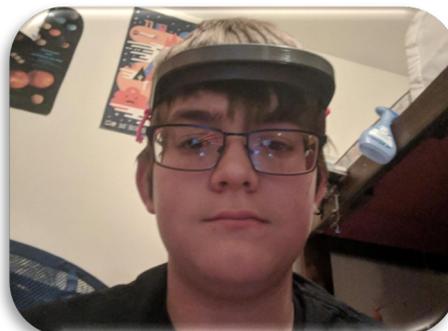
The SolEpoxy team designed a prototype and later, along with Pierce Steel and OSM, manufactured a number of sanitizer boxes for Olean General Hospital and other facilities.



Boundless Connections and Strength Solutions worked with Olean General Hospital to create a 3D printed design for protective face shields, to be used by healthcare workers at the hospital.



Dream It. Do It. helped out by supplying filament, 3D printers, and two Dream It. Do It. interns.



OHS student Byron Ring and OHS graduate Ryan Mikolajczyk (now at Alfred State and ASK Chemicals in Alfred) along with students of Tech Unleashed kept the 3D printers running 24 hours a day to create 450 face shields for Olean General Hospital.



Finally, we are working with Dan Brown ( PLTW teacher at OHS ) to create a kit for area students to build and enhance a portable, collapsible desk. Freshmen DJ and Lucas are going through the engineering design process to design and build a prototype.



The prototype is now being evaluated by Mike Fidurko of CA-BOCES (his students will be cutting and drilling the wood) and will later be approved by one of our area engineers before production begins. Stay tuned!



# DIDI Internships

2014 to 2021

For the past seven years, Dream it. Do It. has been offering summer internships to area high school and college students. Through a grant from Empire State Development, DIDI was able to supplement over 50 internships with our area

manufacturers. Many of these internships have led to permanent jobs in this area, including engineers, chemists, CNC operators, drafters, and IT. Following the ESD grant, DIDI has continued to offer internships to college and high

school students in need of professional experiences for college as well as a need to discover future career pathways. Below are a just few examples of DIDI interns, their pathways, and their current employers:



2014 - Stephanie Pikulski  
Allegheny-Limestone  
Chemistry – St. Bonaventure  
ELANTAS PDG  
Napoleon Engineering



2015 – Brooke Gronnemeier  
Olean  
Engineering Technology  
University of Dayton  
Cutco Inc.



2016 - Kevin Volz  
Olean  
Mechanical Engineering  
RIT  
Siemens



2017 – Allison Forness  
Allegheny-Limestone  
Chemical Engineering  
University of Rochester  
SolEpoxy/Johnson Matthey



2018 – Kristen Chapman  
Hinsdale  
Ceramic Engineering  
Alfred University  
SolEpoxy



2019 – Ryan Mikolajczyk  
Olean  
Mechanical Engineering  
Alfred State College  
ASK Chemicals

# Summer Interns 2020



**Casey Curran**  
Allegany-Limestone Central  
Alfred University Freshman



This is Casey's first year as a DIDI intern. Casey has been a tremendous help with putting together the Downhill Dragster kits for the Eaton YMA. Cutting, drilling, assembling, organizing, adapting.... and helping parents deliver the kits to our area children. Casey is now working on a project with videographer John Tomerlin, where he will meet with area manufacturers to put together a video for our local students, "The Sport of Manufacturing". This video will show our students how the skills learned on the court or field can be transferred into the workplace. Casey will be playing on the Alfred University basketball team in Fall 2020.



**Byron Ring**  
Olean High School  
Junior

Byron has interned with Dream It. Do It. for the past five years. This summer, Byron has helped with our Eaton Young Manufacturers Academy, cutting wood, assembling kits, distributing kits, and doing a trial run of the Downhill Dragster.



Byron is now available to the students for any questions for the Eaton YMA Help Desk! He is also working on putting together kits and videos for our upcoming DIDI 500 – the semi-virtual version.



**James Daley**  
Portville Central School  
Rensselaer Polytechnic Institute  
Sophomore

James has interned with Dream It. Do It. for three years. Last year, he was the first student to receive an internship at Siemens **before** heading to college! Impressive. This year, James needed an internship so he worked with Chris Scott from Siemens, through Dream It. Do It. Here is his project described by Chris Scott.



*Our first planned project is to create some 3D printed models of our Siemens equipment for use (a) in client meetings and trainings and (b) for general career fairs.*

*We have some stunningly detailed models of our equipment packages. We are going to strip out some of the intellectual property out of them, and then send solid models to James. He will be able to slightly tweak them within the solid modelling programs to make them go together like LEGOS.*

*Rationale with this project is that it will utilize mechanical engineering components, solid modelling, and technology. It will also provide good exposure to the network of technical folks in our area.*

# Downhill Dragster

July and August 2020

Each year, Dream It. Do It. WNY organizes and facilitates the Eaton Young Manufacturers Academy, sponsored through the Eaton Charitable Fund and assisted by area manufacturers and organizations. Our Ralph Wilson Foundation's STEM 2035 Club members participate each year in the Academy and the growing number of club members has led to more students interested in the Eaton YMA.

In March of 2020, Phil Farris of SolEpoxy had the idea of our Summer Young Manufacturers building a Downhill Dragster. This would encourage more students to join our STEM 2035 clubs, where they build the official Soapbox Derby cars. Our plan was to have students master skills such as measurement, use of tools, design, trouble-shooting, following directions, collaboration, and presentation.

Given the current situation with COVID-19 along with Eaton's concern for what is best and safest for our community, we were not able to have our usual week-long academy, that included field trips, meetings with area manufacturers, hands-on projects, and more.

However, it was still very important that we keep the students engaged and motivated using STEM related activities. After consulting with a number of parents, students, and teachers, we developed this year's at-home academy with Downhill Dragster kits for thirty-six area students.

Phil Farris designed the car, DIDI interns Casey Curran and Byron Ring cut and drilled the pieces of wood and sorted out hardware (thank you, Nate Smith), Pierce Steel provided axles, and Home Depot provided the boxes. John Tomerlin created a series of 8 videos, with step-by-step

instructions along with insight and tips from our area manufacturers. Parents came to pick up the rather large boxes filled with parts, instructions, videos, t-shirts, measuring tapes, and masks, and off they went to build the cars.

On Saturday, August 15, we had our race in the CA-BOCES parking lot in Olean, NY. Thank you to Jim Schifley of BOCES and Bob Sherburne of Cutco for setting the stage for the race with lanes, flags, winners circle, and bales of hay (thank goodness!) Students and family members came in small groups every 45 minutes - maintaining physical distance and wearing masks - to participate in our Downhill Dragster race! The students were judged on speed, innovation, design, and presentation. The cars were amazing and the students and families had a wonderful time.



**Phil Farris**  
SolEpoxy  
Chemist &  
Inventor



**John Tomerlin**  
Video  
Producer



**Casey Curran**  
DIDI Intern  
Alfred University



**Bob Sherburne**  
Cutco  
Soapbox Derby



**Byron Ring**  
DIDI Intern  
Junior  
Olean High



# National Manufacturing Month

October 2020

National Manufacturing Month was virtual all over the country this year. In order to inform our community members of manufacturing career opportunities in this area, we created videos of facility tours, lesson plans, video

worksheets and hands-on activities for our area teachers and club champions. CA-BOCES created a DIDI link on their website where students and teachers were able to access our materials from the classroom as well as from home.

Students were able to have a virtual tour of our area manufacturers without leaving their home or classroom. While this is not an ideal experience, this series of videos will be most useful in the future.

**National Manufacturing Month** ▶ **PLAY ALL**

Video Title	Duration	Views	Time Ago
Scott Rotary Seals	11:22	91 views	4 months ago
John Stahley - Siemens Energy	6:30	225 views	9 months ago
SolEpoxy Virtual Tour Final	22:20	130 views	4 months ago
Napoleon Engineering Services Tour	34:15	148 views	5 months ago



Clean BOCES Student

Home My Account Log In

Keywords: National Manufacturing Month

Refine Your Search

- Type of Material: DM (4)
- Subject: dream it do it. (4), Napoleon Engineering Services (1), National Manufacturing Month. (4), Scott Rotary Seals. (1)
- Series: National Manufacturing Month (4)
- Publication Date: From: 2020 To: 2020

Search Results: Returned 4 Results, Displaying Titles 1 - 4

Title	Source	Series Title
Napoleon Engineering Services 2020., Dream It Do It Call No: DM1336 NES Engineering Handbook NES Lesson Plan More... Source: CA BOCES	CA BOCES	National Manufacturing Month
Scott Rotary Seals 2020., Dream It Do It Call No: DM1337 SRS Activity Data Sheet SRS Activity Data Worksheet More... Source: CA BOCES	CA BOCES	National Manufacturing Month
Siemens 2020., Dream It Do It Call No: DM1338 Siemens Video Worksheet Source: CA BOCES	CA BOCES	National Manufacturing Month



# Dream It. Do It. WNY

is celebrating

## National Manufacturing Month

Each year, Dream It. Do It. has provided tours through area manufacturing facilities and educational institutions, showing local students, parents, teachers, and counselors the STEM related career opportunities in our area.

### Nothing is stopping us this year!

At Dream It. Do It., we are doing everything we can to keep our students and manufacturers safe while still opening everyone's eyes to the exciting opportunities in the area. With the help of videographer John Tomerlin, we have created a series of virtual experiences, consisting of video tours and



STEM professional activities for our area students and teachers. Videos and lesson plans will be available on the CA-BOCES Learning Resources website at [resources.caboces.org](http://resources.caboces.org) and are a great compliment to *Advancing STEM* and other kits available through CA-BOCES.

But we're not stopping there! Manufacturers are working on more videos and activities that will be available throughout the year, so stay tuned for more digital kits, available soon!

### Available now!

Napoleon Engineering Services  
Virtual Tour and Video Worksheet  
STEM Professional Activity

SolEpoxy  
Virtual Tour and Video Worksheet  
STEM Professional Activity

Scott Rotary Seals  
Virtual Tour and Video Worksheet  
STEM Professional Activity

### Future Digital Kits

Cutco Corporation

Eaton

Mazza Mechanical Services

Pierce Steel

Fitzpatrick & Weller

...and more!



# Dream It. Do It. 500

November 2020

Our STEM 2035 Mfg Club teacher champions worked with us to help put together this year's DIDI 500. A new set of rules was created and rather than having the event in a large auditorium with over 200 participants, we created individual kits for STEM 2035 Club members, former DIDI 500 participants, and

members of the Young Manufacturers Academy. Students from Olean High, Olean Middle, Falconer, Southern Tier Catholic, Bolivar Richburg, Cuba-Rushford, Portville, and Allegany signed up for individual kits while Portville, Genesee Valley, Oswayo Valley, Wellsville, Salamanca, Olean

High, and Olean Middle Schools received class sized kits, to have their own DIDI 500 races. In Portville, almost 50 of the students who participated were members of the STEM 2035 Mfg Club. Cuba-Rushford will be starting the DIDI 500 in mid-March with 60 students as well as their Girls in Mfg Club, GLEAM.





David Suain, a mentor with the Dream It Do It (DIDI) 500 project, demonstrates how to make a rubber band-powered car on a video that is being viewed by area students who are currently participating in making the cars from a kit. An outdoor race for the vehicles is expected to be set up in Olean after the holidays.



## Dream It Do It students build rubber band-powered cars

By KATE DAY SAGER  
Olean Times Herald

OLEAN — For close to 10 years, the Dream It Do It Western New York program has instructed area students participating in the DIDI 500 project, which essentially teaches them how to build model cars powered by rubber bands.

As with projects conducted by DIDI-WNY this year, video instruction has been provided for the construction of cars due to social distancing needed to meet Covid-19 guidelines. In past years, students had attended St. Bonaventure University to construct the DIDI 500 vehicles for the competition.

The program was created in 2012 by the university's ENACTUS Club, whose club members and area manufacturers would assist school students with building the little cars. Dream It Do It was created in past years with the premise of promoting STEM-related careers



Emma and Jason Anderson of Olean stand outside Evelyn Sabina's house after picking up a kit to make a rubber band-powered model car for the Dream It Do It 500 project.

for students.

According to Evelyn Sabina, program coordinator for DIDI-WNY, teachers and students from

schools in area counties have responded to this year's program

Dream ... page A-5

Mark Levine of Genesee Valley ordered 60 kits and was very excited about having the students able to do something hands-on in school or at home.

Levine, who teaches middle school and high school technology at Genesee Valley in Belmont, said the kits came at a good time for him and the students.

"Kits like these are great because (they meet standards) for high school tech curriculum and transportation," Levine said, noting the kits are used for his eighth-grade students.

# It's winter, but the DIDI 500 car races go on!



Evelyn Petersen, a sixth-grade student at Portville Central School District, holds a DIDI 500 race car she designed in the shape of a pizza for this semester's Dream It Do It Western New York project.

By KATE DAY SAGER  
Olean Times Herald

PORTVILLE — Over the past couple of months, sixth- and seventh-grade students at the Portville Central School District have not only created their own miniature race cars, but have added some unique designs to them, as well.

The DIDI 500 car project and races at Portville Central is just one more example of activities the Dream It Do It Western New York program has provided to students at area schools to keep them engaged with STEM activities.

"Our area manufacturers wanted to make sure our students continued to have hands-on, STEM-related activities while learning about the career opportunities in our area," said Evelyn Sabina, program coordinator for DIDI-WNY. "Despite uncertainty and twice the normal workload, the

teachers went above and beyond to make sure their students had these valuable experiences ... and a little fun, as well."

Sabina said the prizes for winners of the races and supplies were supplied by Dream It Do It with the support of area manufacturers. In addition, the Sherwin-Williams Paint Store supplied 1,000 paint sticks for the kits.

Joe Pleakis, a seventh-grade science teacher at Portville Central, said a large number of students joined the DIDI program this school year.

"We had a ton of kids this year, probably at least 50" from Portville, Pleakis said, noting the car races were held last week and this week in the school gymnasium. He said boys and girls in the sixth and seventh grades and a few fourth- and fifth-grade students received the free kits to create the small race cars. He said the overall purpose of the

project is to encourage students to use STEM skills to make the cars go "farther and straighter."

"Evelyn (Sabina) set up the kits and I set up the rules with the kids," Pleakis added, noting the students had up to two months to make the cars. "We got the kits to them before Christmas so they could have Christmas break to work on them."

As for the creations, Pleakis said "Some of the cars were awesome."

One of the car designs was created in the shape of a pizza by sixth-grade student Alana Petersen.

Alana said she came up with the idea for her pizza car when her aunt provided random ideas for unusual designs, and this sparked her imagination.

"It just came to me while I was thinking of pizza," Alana shared. "I like to just use my imagination for things, I guess."

Alana said she also enjoyed using her math

and science skills for the project, and she believes she learned additional skills through the project, which was her first time to make a car.

Another sixth-grader, Luke Edwards, said he also enjoyed the project and making his car for competition. Luke said he has participated in DIDI in the past when he made one other car for racing. Luke said would consider making another car on his own in the future.

In explaining what skills he has learned, Luke said it included, "Measuring the back axle and wheels" to ensure the car ran properly.

Pleakis said he will likely conduct additional projects in the spring for the students, thanks to DIDI and its input.

"We'll get (the students) doing something," he concluded.

(Contact reporter Kate Day Sager at [kates\\_th@yahoo.com](mailto:kates_th@yahoo.com). Follow her on Twitter, @OTHKate)

# DIDI wins \$10,000 in Siemens Energy Video Contest

January 2021

John Stahley, VP of Global Operations at Siemens Energy, invited Dream It. Do It. WNY to participate in the Positive Energy contest through Siemens. Siemens asked that participants create a 60 second video to show how the organization is spreading positive energy throughout the community. Thank you to all of the manufacturers who made this video possible. Below are quotes from our letter of congratulations and recent press releases:

*Congratulations! Dream It Do It Western New York Inc has been selected as a grand prize winner for our Positive Energy contest. Your organization's video really demonstrated how you are spreading positive energy in your community and had a great response from the votes and our judges. We are so happy to be able to provide you with a donation of \$10,000 to help you further support your community.*

## Siemens Press Release

*Siemens Energy created a campaign to spread positive energy in the U.S. through donations to its employees' favorite charities totaling \$250,000 across 20 states. A total of 122 charities were ultimately selected to receive donations ranging from \$500 to \$10,000 based on a combination of public "likes" and scores earned from a panel of judges.*

*Evelyn Sabina, program coordinator for \$10,000 winner Dream It Do It WNY said, "We can't thank Siemens Energy enough for their continued support for DIDI WNY. Through student mentoring, classroom visits, school tours, internships, teacher workshops and more, Siemens continues to be a driving force behind our mission: To encourage our talented youth to pursue STEM related careers in Advanced Manufacturing."*

Olean Times Herald  
by Kate Sager

*Five non-profit organizations in the Olean area were selected, including the Dream It Do It Western New York program, which received \$10,000. The DIDI WNY grant was just one of three across the country to receive the top amount awarded.*

*"We wanted to make sure we took advantage of this," John Stahley said. "It turns out we did pretty well and are pretty well represented."*

*John said he was especially pleased that DIDI WNY did as well as it did, as STEM programs and activities for youngsters are needed in the Twin Tiers area.*

*"Dream It. Do It. is something we've been working on for many years. It's been high on our priority list for a long time."*



Eaton Winter 2020

# Young Manufacturers Academy

Sledding

February 2021

The Winter Eaton Young Manufacturers program was another unique and valuable experience for our area youth. Since some schools did not take the February break and we weren't able to meet together, we created another at-home experience for 50 young manufacturers.



This year, Phil Farris of SolEpoxy designed the sled for the young manufacturers, while Chantal Cook of Cutco prepared a CAD drawing for them to read and follow. Phil's design was an adaptation of a Klondike sled he had built while in boy scouts – a few years ago!



Mike Fidorko of CA-BOCES Belmont had his students measure, cut, drill, assemble, disassemble, and organize all of the pieces, hardware, and instructions to make 50 kits for our young manufacturers. John Tomerlin filmed an instructional video, including footage of the CA-BOCES students hard at work!



Parents picked up the kits at Close's lumber (where we purchased the wood at a discount) and some kits were delivered right to the young manufacturers' doorsteps. Close's displayed a completed sled in their lobby,

Young manufacturers were encouraged to build the basic model but then think of some creative, innovative ideas for making the sled faster, more appealing, and safer. Measurement, reading CAD drawings, following directions, and safety were encouraged throughout.



We had planned a race but the WNY weather did not cooperate so we had to do the contest virtually. We had some great videos and pictures sent in by parents and young manufacturers. Our final challenge was to.... take apart the sled and create something that will be helpful to others. We'll see what our young creative minds will come up with. Stay tuned!



## Safety Tips

- \* Be sure to read instructions if using any tools.
- \* Wear eye protection and gloves while using tools.
- \* Be sure to wear a helmet while testing and racing your sled
- \* Be aware of your surroundings while testing or racing - watch out for obstructions
- \* Make sure you wear appropriate clothing - it gets cold out there!!
- \* Safety is #1

Thank you to the following members of our community  
for making this winter's  
Eaton Young Manufacturers Academy possible:

Eaton

Ralph Wilson Foundation

Phil Farris of SolEpoxy

Chantal Cook of Cutco

Close's Lumber

Mike Fidurko of CA-BOCES

CA-BOCES students of Carpentry and Construction

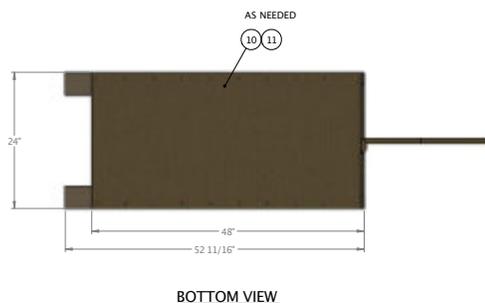
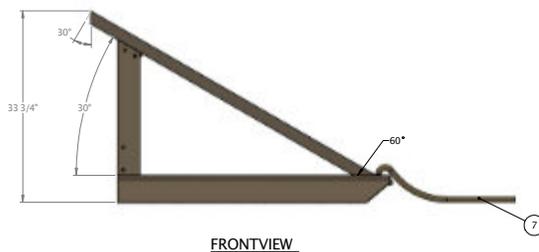
John Tomerlin, Videographer

Anna Jaremko, Holiday Valley Ski Patrol

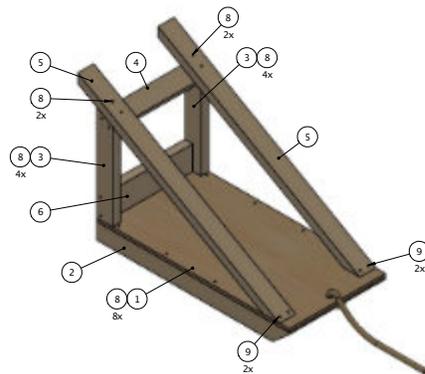
Area Manufacturers and members of MAST

## NOTES:

1. MAKE SURE TO DECORATE AND MAKE IT YOUR OWN.
2. HAVE FUN!



ITEM NO.	QTY.	DESCRIPTION	MATERIAL	SIZE
1	1	PLYWOOD SHEET	PLYWOOD	3/4" THICK x 2'-0" x 4'-0" LG.
2	2	RUNNER	WOOD	2" x 4" x 4'-0" x LG.
3	2	SIDE SUPPORT	WOOD	2" x 4" x 2'-0" LG.
4	1	CROSS SUPPORT	WOOD	2" x 4" x 1'-8" LG.
5	2	HAND RAIL	WOOD	2" x 4" x 4'-10" LG.
6	1	BOTTOM SUPPORT	WOOD	2" x 6" x 1'-8" LG.
7	1	ROPE	-	-
8	22	WOOD SCREW	STEEL	3" LONG
9	4	WOOD SCREW	STEEL	1 1/2" LONG
10	1	BOTTOM LINING	CARDBOARD OR PLASTIC	24" WIDE x LENGTH NEEDED TO COVER BOTTOM OF SLED
11	18	STAPLES	STEEL	STAPLE GUN STAPLES OR ROOFING NAILS



**APPROVED**

DREAM IT DO IT		EATON WINTER YMA-2021	
DIDI SLED			
DESIGNED BY	DATE	REVISED BY	DATE
ISSUED BY	DATE	APPROVED BY	DATE
SEE BILL OF MATERIAL		SHEET 1 OF 1	
D		D-XXXX	

Drafting has been around for years! Drafters use their drawings to graphically represent real things, from buildings to objects. Drafters work in industries such as medicine, architecture and manufacturing. Thank you to Chantal Cook from Cutco for creating this Computer Aided Design (CAD) for your sled.



"If art is your passion, look into drafting as a rewarding career. As a drafter at Cutco, I create precision drawings of equipment and products that are used to create prototypes. Each day is exciting, as, you will see something come out of nothing!!!"



Thank you DIDI for this awesome challenge!

## Dream It. Do It. WNY Upcoming Events

May 2021	June 2021	July 2021	August 2021
<i>Dream It. Do It. 2.0 Guidance Counselors</i>	<i>Soapbox Derby</i>	<i>Summer Teachers '21 Summer Internships Eaton YMA</i>	<i>Downhill Dragster Race</i>
September 2021	October 2021	November 2021	December 2021
<i>STEM 2035 DIDI Mfg Clubs</i>	<i>National Mfg Month</i>	<i>DIDI 500</i>	<i>Dream It. Do It. 2.0</i>
January 2022	February 2022	March 2022	April 2022
<i>Girls in Mfg</i>	<i>Eaton YMA</i>	<i>Celebrating Women in Manufacturing</i>	<i>Mfg &amp; STEM Fair</i>

### Thank you to

Board Members of Dream It. Do It. WNY - Cattaraugus County

Cutco Corporation

Ralph Wilson Foundation

Eaton Charitable Fund

Napoleon Engineering Services

Carol and Jim Stitt

Cattaraugus County Schools

SolEpoxy

Pierce Steel

Allegany County Schools

Siemens Energy

Scott Rotary Seals

Potter County Schools

CA-BOCES

Home Depot

Olean Business Development

Close's Lumber

Sports Locker

CA-BOCES Carpentry Class

Boundless Connections

Scott Rotary Seals

OHS PLTW

Mazza Mechanical Services

OSM

Jamestown Community College

Manufacturers Association of the Southern Tier



Any questions, please contact Evelyn Sabina, Director, DIDIWNY esabina1@gmail.com