

2024

CA-DIDI / Eaton Manufacturers Academy

DIDI Center / MTI@JCC

When: Monday, July 8 - Friday, July 12 9:00am - 2:30pm

Who: Young Manufacturers - Grades 5-7 (as of Sept, '24)

Junior Manufacturers - Grades 8-12 (as of Sept, '24)

Where: DIDI Center / JCC Olean

Theme: May the $F=ma$ be with you!!



Discover how manufacturing is everywhere!

Learn about engineering and design from real engineers!

Engage in some High-Tech Science Experiments!

Explore STEM and robotics activities.

Design, Build, and Race ... a Catapult!

Meet professionals in manufacturing!

Learn about Force!

Have Fun!



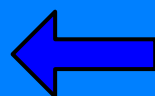
Workforce Development

\$120 for the week

Lunch provided

(Financial Assistance Available)

For more information, email
Evelyn Sabina, Executive Director
esabina1@gmail.com

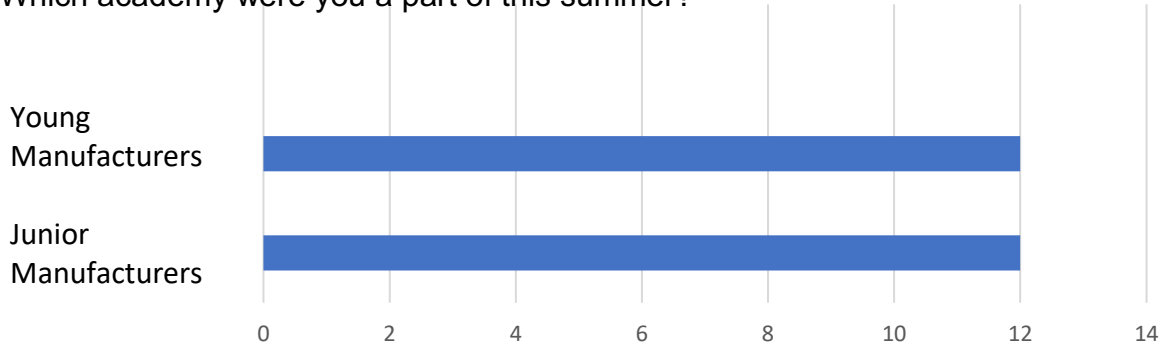


Sign up here!

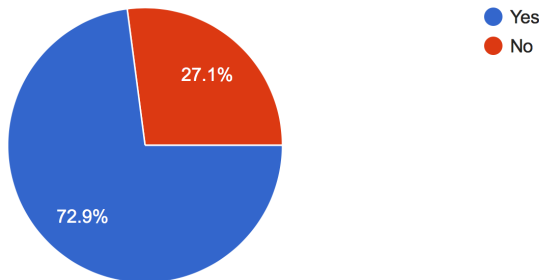
	Monday, July 8	Tuesday, July 9	Wednesday, July 10	Thursday, July 11	Friday, July 12
Each day, 9:00 – 11:30, students will meet in their groups YMA & JMA. Day 1, everyone meets in the DIDI Center, 301 N Union Second Floor.	9:00 – 9:15 – meet together to discuss the week and rules. 9:15 – 10:00 YMA – 3 rd floor <i>Newton's Laws</i> JMA – DIDI Center <i>Fusion 360 – Design</i> 10:00 – 10:15 – Break 10:30 – 11:15 YMA – 3 rd floor <i>Applying Newton's Laws</i> JMA – DIDI Center <i>Fusion 360 - Design</i>	9:00 – 10:00 YMA – 3 rd floor <i>Balloon Jousting</i> JMA – JCC Welding/Machining 10:00 – 10:15 – Break 10:15 – 11:15 YMA – 3 rd floor <i>Mini Catapult</i> JMA – JCC Welding/Machining	9:00 – 10:00 YMA – 3 rd floor Balanced and Unbalanced Forces JMA – DIDI Center <i>Mousetrap Cars</i> 10:00 – 10:15 – Break 10:15 – 11:15 YMA – 3 rd floor Balanced and Unbalanced Forces JMA – JCC <i>Mousetrap Cars</i>	9:00 – 10:00 YMA – 3 rd floor Rubber Band Powered Vehicles JMA – JCC Welding/Machining 10:00 – 10:15 – Break 10:15 – 11:15 YMA – 3 rd floor Rubber Band Powered Vehicles JMA – JCC Welding/Machining	9:00 – 10:00 YMA – 3 rd floor Rubber Band Powered Vehicles JMA – DIDI Center <i>Mousetrap Cars</i> 10:00 – 10:15 – Break 10:15 – 11:15 YMA and JMA DIDI Center Trebuchet – Final Testing
11:15-11:30	Clean-up	Clean-up	Clean-up	Clean-up	Clean-up
11:30-12:00	Lunch – Tasta Pizza	Lunch – Sandwiches from Reids	Lunch – Tasta Pizza @ JCC	Lunch – Sandwiches from Reids	Lunch – Tasta Pizza
Students will be in groups of 4 2 pairs	Truck Day 1 Safety – Brian George Cutco Blueprints - Xavier Smith JCC Design - Phil Farris SolEpoxy Design and start Trebuchet Groups of 2 DIDI Center and SoapBox Room	Truck Day 2 Team work – Jennifer Clarke Eaton Continue building Trebuchet Keep in mind safety and teamwork. Volunteers /Mentors each day area Engineers, Interns, and Technicians from Eaton, Cutco, SolEpoxy, Siemens Energy, JCC	Truck Day 3 Messy Science – Phil Farris SolEpoxy Continue building Trebuchet Keep in mind safety, teamwork, and friction. Volunteers /Mentors each day area Engineers, Interns, and Technicians from Eaton, Cutco, SolEpoxy, SRS, Siemens Energy	Truck Day 4 5 Whys – Chris Scott Siemens Energy Finish building Trebuchet and start testing, keeping in mind safety, teamwork, and the 5 Whys. Volunteers /Mentors each day area Engineers, Interns, and Technicians from Eaton, Cutco, SolEpoxy, SRS, Siemens Energy	After lunch, walk over to JCC parking lot and get ready for the final competition. Do some practice runs. 1:30 – 2:30 (Family invited!) Final Competition! Each person will get a chance to win first place for distance and first place for accuracy
2:15 – 2:30	Clean-up	Clean-up	Clean-up	Clean-up	

Since our Young Manufacturers were no longer young, we decided to create two academies, thanks to the support of Eaton: The Young Manufacturers Academy and the Junior Manufacturers Academy. Participants were asked the following questions after Eaton YMA/JMA Week:

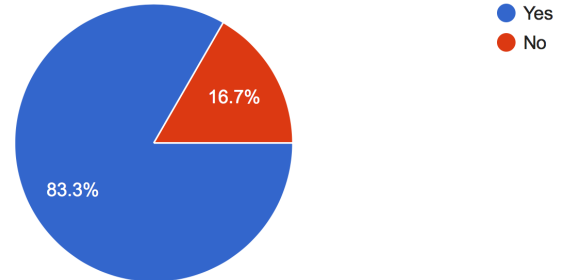
Which academy were you a part of this summer?



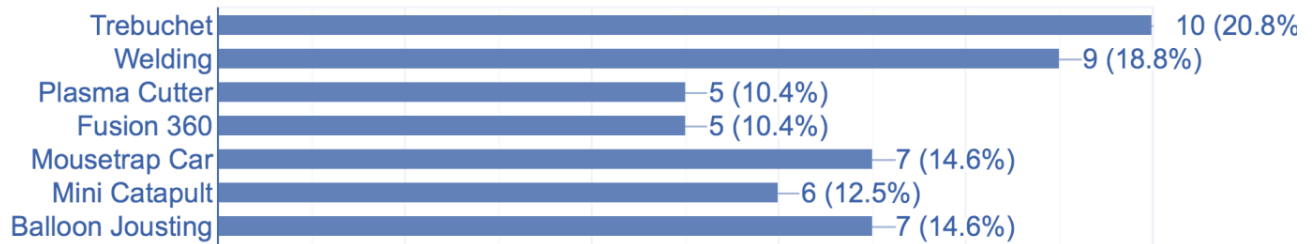
Before Eaton YMA week, would you have liked to work in manufacturing? (Engineering, robotics, welding, programming, building and design?)



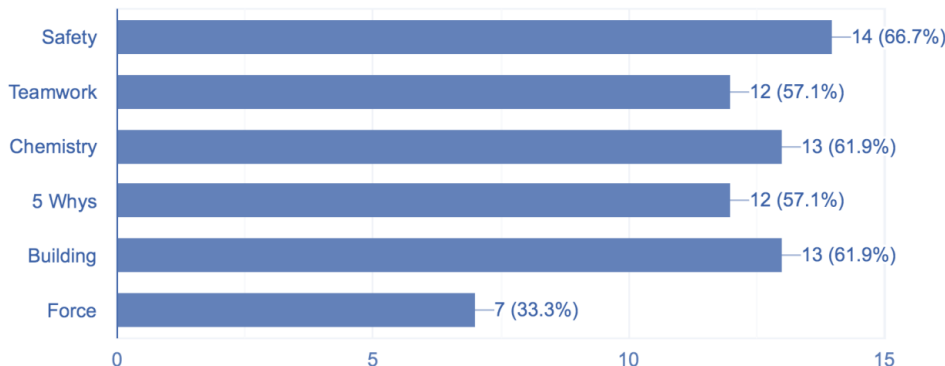
After Eaton YMA week, would you like to work in manufacturing? (Engineering, robotics, welding, programming, building and design?)



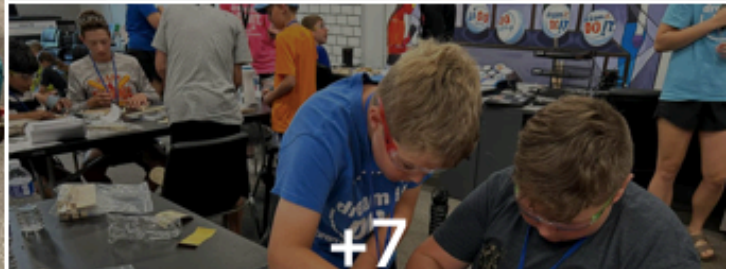
Which were your favorite activities this week?



What do you remember most that you learned this week?



Great first day with CA-DIDI Manufacturers Academy! What a terrific group! Our day was filled with fun activities with Carol McClellan and Kathryn Cook as well as meeting new (and old) friends. We had a visit from Brian George from Cutco to learn about the importance of safety in the workplace as well as a few tips about working with our peers. We took a quick walk over to JCC to check out the campus then back to the DIDI Center to work on our project for the week. Xavier Smith from JCC designed a model of a trebuchet and students got to work designing and building their own. Everyone left with all fingers intact, thanks to safety tips from Mr. George!



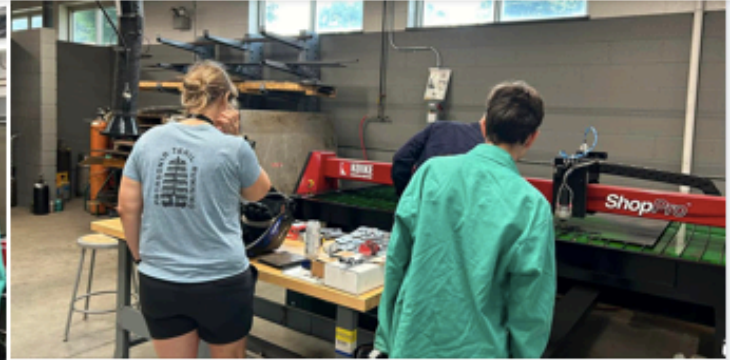
Another great day at YMA! Our older group walked over to JCC to work with Jacob Elliott on the Koike plasma cutter, continue with their fusion 360 designs, build 8 cat beds for the SPCA, then headed back to the DIDI Center for lunch. Meanwhile, our young manufacturers were having an exciting medieval balloon jousting contest! In the afternoon, Jennifer Clarke from Eaton (the major sponsor of YMA) visited with the students to talk about the importance of teamwork, communication, and looking out for the safety of your peers. More hammering, cutting, drilling and tips from Xavier Smith brought us closer to finishing our medieval machines! Stay tuned



Day 3 was a busy day! Making mini catapults and mousetrap cars was only the beginning! Phil Farris from SolEpoxy stopped by to share a chemistry experiment that was a big hit! Then back to the trebuchet project! I wonder what tomorrow will bring! (Hint! Juniors, don't forget to wear pants and closed toe shoes!)



On the fourth day of our program, our junior manufacturers visited JCC for further work on the Koike plasma cutter as well as welding, with assistance from our experienced welders who demonstrated their skills acquired in DIDI 2.0. Thank you to Xavier Smith and Jacob Elliott for their guidance and encouragement. Meanwhile, at the DIDI Center, our young manufacturers showcased their creativity and problem-solving abilities while constructing mousetrap cars. Following lunch, we were visited by three Siemens Energy Interns, who encouraged our students to implement the 5 why strategy during the testing of their Trebuchets. Our final contest is tomorrow at JCC!



“This week was a blast!” was one of the comments from our young manufacturers on Friday. Parents, grandparents, and siblings came out for the final competition on the JCC campus. Abe, Colin, and Grace welcomed everyone and kept the event running smoothly. They also thanked our teachers and fellow interns but most of all, the parents who encouraged and supported their children throughout the week. Thank you again to our DIDI Interns, Xavier Smith, Jacob Elliott, Kathy Cook, Carol McClellan, Christine Gabler, Eaton, CA-DIDI Supporters, and JCC for a wonderful week!

