



*Human to
Tech Transfer*

EMDC

CHAMPIONSHIP

Rochester, Minnesota

April 19, 2024



MINNESOTA STATE
Engineering Center of Excellence

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Proudly hosted by



Welcome Message

Welcome to the 2024 Engineering Machine Design Contest (EMDC) Championship, brought to you by the Minnesota State Engineering Center of Excellence! As we celebrate the seventh year of the EMDC and our fourth Championship event, we're thrilled to witness teams from Iowa, Minnesota, and Wisconsin showcasing their incredible talent and creativity.

This year's theme, "Human to Tech Transfer: Advancing Technology by Reverse Engineering the Human Body," has ignited our participants' imaginations and technical skills. This theme challenged teams to creatively interpret and apply STEM principles, drawing inspiration from the complexities of the human body to design their chain-reaction machines. It reflects the remarkable effort and innovation of our participants, who have demonstrated exceptional talent in regional contests to secure their place at this championship.

In 2024, we were excited to launch the EMDC Ambassadors Program! This initiative offers EMDC students the chance to engage more directly with the EMDC throughout the year, sharing their passion and insights with a wider audience. I am proud and amazed by this year's inaugural ambassadors.

For those interested in helping shape the future of the EMDC, we have open volunteer roles, including mentor positions within the Ambassadors Program and slots for membership on our advisory committee. These opportunities are aimed at enriching the EMDC experience for everyone involved, providing invaluable guidance and support to our teams.

A special note of gratitude to our host, Rochester Community & Technical College, and the support of regional contest organizers, judges, and staff, whose dedication makes this event possible. Their commitment ensures a rewarding and unforgettable experience for all our participants.

We eagerly anticipate the unfolding of today's championship; confident it will be a display of the exceptional talent that defines the EMDC. Good luck to all our teams—your innovation and spirit are what make this event truly outstanding.



Melissa Huppert

Melissa Huppert, PhD

Director of the Engineering Machine Design Contest

Director of STEM Outreach



MINNESOTA STATE
Engineering Center of Excellence

EMDC Advisory Committee

Dana McLaren | *Technology Education Teacher, New Berlin High School*

Devin Schwiesow | *Science and Technology Teacher, St. Ansgar High School*

Eric Kerr-Anderson | *Composite Materials Engineering Assistant Professor, Winona State University*

Jennifer Peck | *PK12 STEM Consultant, CESA 10*

Nora Gathje | *Science Teacher, Chatfield High School*

Paula Mortenson | *Physics and Chemistry Teacher, Southland High School*

Sheila Miller | *Technology Coordinator, Blessed Maria Assunta Pallotta Catholic School*

Melissa Huppert | *STEM Outreach Director, Minnesota State Engineering Center of Excellence*

Jason Bruns | *Director, Minnesota State Engineering Center of Excellence*

🕒 Schedule

7:00AM - 8:30AM	Team Check-in	<i>East Entrance</i>
8:40AM - 8:55AM	Last-minute Coach Meeting	<i>SE Field House</i>
9:00AM - 9:20AM	Welcome Session	<i>SE Field House</i>
9:00AM - 9:30AM	Machine Pre-check	<i>North Field House</i>
9:30AM - 12:30PM	Preliminary Round	<i>North Field House</i>
10:00AM	Engineering Design Challenges Open	<i>SW Field House</i>
11:00AM - 1:30PM	Lunch Available	<i>Outside East Entrance</i>
12:30PM - 1:00PM	General Session	<i>SE Field House</i>
1:00PM	Finalists Announced	<i>SE Field House</i>
1:20PM - 4:00PM	Redesign Round	<i>North Field House</i>
1:30PM - 4:00PM	Finals Round	<i>North Field House</i>
3:00PM	Special Awards Voting Ends	<i>Online</i>
4:00PM	Engineering Design Challenges Close	<i>SW Field House</i>
4:00PM - 4:30PM	Engineering Challenge Showcase	<i>SE Field House</i>
4:00PM - 6:00PM	Machine Removal	<i>North Field House</i>
4:30PM - 5:30PM	Awards Ceremony	<i>SE Field House</i>

🚚 Food Trucks (11:00AM – 1:30PM)



MENU

Choice of two slices of...
Pepperoni Pizza
Cheese Pizza
Sausage Pizza
 ...with a Cookie and Soda



MENU

Choice of...
One Taco with Chips and Soda
Two Tacos with Soda
Chicken Strips with Chips and Soda

Tacos: *Beef, Fried Chicken, Walleye, Vegetarian*
Chips: *Queso, Pico de Gallo*



MENU

Choice of...
Bbq Sundae
Pork or Chicken Sandwich
 ...with a Side and Drink

Sides: *Smoked Mac & Cheese, Bacon Corn, Barbecue Beans, Creamy Coleslaw, Potato Salad*

Event Photographer

Keep an eye out for our student photographers and don't forget to flash your best smile! After the event, you'll be able to find the photos on our website. If you're seeking the perfect photo opportunity, make sure to visit our backdrop located near the Engineering Design Challenges in the SW Field House area.



Abigail Barfknecht
Wildlands School



Buttons Foust
Wildlands School



Evelyn Baird
Pine Island Public School

Activities & Resources

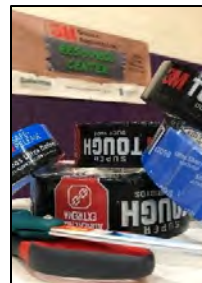
Explore Engineering Activities

The Minnesota State Engineering Center of Excellence has put together a series of challenges and activities for students to engage in – pushing problem-solving skills to the max! Everyone is welcome to participate. No sign-up is needed, just show up at the SW Field House area and explore what is available, including the featured Engineering Design Challenge arranged by the EMDC Ambassadors.

Featured Engineering Design Challenge

The EMDC Ambassadors selected an engineering design challenge they would like all students to join in on! Visit the SW Field House area to learn more. You can complete the challenge with your EMDC team or create a new team. At 4:00 PM, the Ambassadors will invite teams to present their challenge solution to the group in the SE Field House area. From there, the best design will be selected!

3M Resource Center



3M Science.
Applied to Life.™

The 3M Resource Center is conveniently located near the contest area and is available for teams to use to repair and improve their machines. Take what you need and return what you do not use! This is also a key resource for teams as they navigate the Redesign Round!

Advisory Committee Seeks New Members

The EMDC invites coaches and stakeholders to apply for our Advisory Committee. Meeting virtually twice a year, this committee influences rule changes, program strategies, and new initiatives to enhance our impact on future engineers and related professionals. If you're committed to advancing STEM for all and have insights to share, we need you. Members will collaborate on critical decisions, helping shape the future of the EMDC. Apply today and join us in inspiring the next generation of STEM leaders.

<https://forms.office.com/r/ZnMJHCc6mK>



EMDC Ambassadors

NEW this year! The EMDC Ambassador Program is an exciting initiative designed to connect passionate EMDC participants with a platform to share their experiences, inspire others, and promote engineering and design principles. Ambassadors have the unique opportunity to represent EMDC, playing a pivotal role in expanding the reach and impact of the contest. This program not only elevates the visibility of EMDC but also empowers ambassadors to become leaders and advocates for STEM education, fostering a supportive and inclusive environment for future innovators. Learn more about the EMDC ambassador program and apply today! <https://engineering.mnsu.edu/engineering-machine-design-contest/ambassadors/>



Meet the 2024 EMDC Ambassadors



Danica Strauss | *Wildlands School, 9th Grade*
CESA10 EMDC, 3rd Year

The EMDC program has taught me and given so many amazing experiences. This program has gotten me an internship in a machine shop (at only 14 years old). It has inspired me to pursue engineering in the future as a machinal engineer. I have learned a lot from the experiences and have become invested in engineering because of my involvement in the building and maintenance of my machine. Through the EMDC, I have learned a lot of skills that I can use in the future. As an EMDC Ambassador, I am excited to help and inspire kids to build.



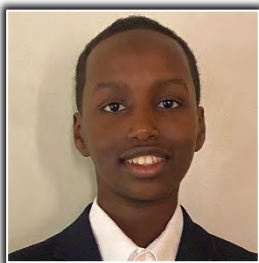
Jane Black | *Wildlands School, 9th Grade*
CESA10 EMDC, 3rd Year

Being a part of the EMDC for two years, I have learned how to communicate with and support others. My favorite part of the EMDC is working with teammates to combine our ideas and seeing other teams' amazing designs. I love helping and encouraging others. I am excited to be a role model for the EMDC. I am passionate about encouraging others and helping them come up with cool components. I am a great communicator, I love to brainstorm new ideas and work with a team.



Lucas Anderson | *New Berlin Eisenhower, 11th Grade*
Milwaukee EMDC, 3rd Year

I've been participating in the EMDC since freshman year and I've loved it the entire time. From Powering the World two years ago to Space last year it's been one of my favorite activities I've ever done. I look forward to this year's and next year's competition. I think that the Engineering Machine Design Contest has helped me prepare for my future by showing me numerous paths I can take down the engineering field. I am leaning toward Electrical or Biomedical Engineering because of EMDC. As an EMDC Ambassador, I can contribute to helping all teams.



Luqman Muhamed | *New Century School, 10th Grade*
Mankato EMDC, 6th Year

I am excited to be chosen as an ambassador for the EMDC. The EMDC has inspired me to be interested in architecture, civil engineering, mechanical engineering, and computer science. Engineering is a very broad field and EMDC experiences are important as I explore options. I am excited to be an EMDC ambassador to be a part of the EMDC community and meet other cool and smart people. As well as to gain experience to hopefully become a judge, develop my leadership skills, and increase my engineering capabilities while I explore career options.

Team Journals

Team journals are available online! These journals are a testament to the hard work, innovation, and creativity that each team has poured into their projects. From initial sketches to final reflections, explore the journey of our talented participants as they navigated through the challenges and triumphs of the Engineering Machine Design Contest. Whether you're looking for inspiration, curious about the design process, or simply want to celebrate the achievements of these young engineers, the team journals offer a unique window into the heart of the EMDC. engineering.mnsu.edu/engineering-machine-design-contest/championship/journals



Special Awards

People's Choice

Everyone is welcome to cast their ballot for the **People's Choice** awards for both Junior and Senior Divisions! Vote for the machine that is simply YOUR favorite. Submit your ballot by 3:00 PM to have it counted.
<https://forms.office.com/r/swPUwwhAa6>



Scored

These special awards are based on the scores teams received for judged categories in both divisions: **Best Team Journal** and **Best Team Presentation**.

Team Ballot

Each team can cast their ballot for these special awards. One ballot per team. Ballots must be submitted by 3:00 PM to be counted.

Best Technical Construction (*Senior Division*) | for a machine with the best overall construction, fit, and finish.

Most Creative Use of Materials (*Junior Division*) | for being the team that used unusual objects to build their machine or used an everyday object in a new fun way.

Theme Award (*Junior & Senior Divisions*) | for being the team that best identifies and communicates the competition theme.

Theme Originality | for being the team that had the most unique interpretation of the annual theme.

Judge Selected

These special awards are deliberated on and awarded by the judges.

College & Career Ready (*Senior Division*) | for being the team that exemplified in applied knowledge, effective relationships, and workplace skills.

Most Innovative Step (*Junior Division*) | for being the team with the most creative or ingenious step/transfer of energy.

Most Innovative Advanced Component (*Senior Division*) | for being the team with the most creative or ingenious advanced component step.

Persistence Award (*Junior Division*) | for being the team that displayed grit and persistence.

Reimagined Resources | for being the team that made the best use of recycled materials.

Seamless Design | for being the team that had the most seamless machine design.

Advice from the Head Judges



Aaron Budge, Associate Dean
College of Science, Engineering
and Technology at Minnesota
State University, Mankato

To Teams...

As head judges of the Engineering Machine Design Contest, we are thrilled to welcome you to a program that not only tests your engineering acumen but also **ignites your passion for discovery and innovation**. As you embark on this challenge, remember that the skills you are developing—**problem-solving, teamwork, and creativity**—are the same ones that will propel you in future careers in STEM.

Our advice is simple yet pivotal: **stay curious, embrace challenges, and collaborate effectively**. The ability to think outside the box and work well with others is invaluable in engineering and beyond. Every hurdle you encounter is an **opportunity for growth and learning**, mirroring the real-world process of innovation. This contest is more than a competition; it's a **journey into career exploration**. By reverse-engineering the human body to advance technology, you have stepped into the intersection of biology, technology, and engineering. Fields like biomedical engineering, robotics, and prosthetics are just a few examples of career pathways where these skills and interests converge.

As you reflect on your chain-reaction machines, consider the broader implications of your work. Each component, each solution, brings you closer to understanding the complexity and potential of integrating human biology with technology. This is the essence of future STEM careers—**solving real-world problems by bridging the gap between what is and what could be**. Similarly, reflect on the efforts made to make this event possible. Take a moment to **thank your coaches**, and the judges, and to show appreciation to the volunteers who make it possible for you to have this experience today. Also, enjoy the atmosphere of the beautiful campus and **imagine yourself pursuing your dreams** somewhere similar in the future. **Follow your passion and your dreams!**

We are excited to see your innovative approaches and solutions. Your participation in the EMDC not only showcases your present abilities but also lays the **groundwork for your future in STEM**. Best of luck, and may your designs be as boundless as your potential.



Jason Bruns, Director
Minnesota State Engineering
Center of Excellence

To Coaches...

Your role as a coach is paramount in **guiding, inspiring, and unlocking the potential** within each student. You are the catalysts for curiosity, the mentors in moments of challenge, and the cheerleaders in every success. Your influence extends far beyond the design and construction of chain-reaction machines. Through your guidance, students learn the **invaluable skills of critical thinking, collaboration, and perseverance**. You are preparing them not just for this contest but for a future rich with opportunities in STEM fields.

We recognize and celebrate your efforts in fostering an environment where students can explore their passions, challenge their limits, and envision their place in the world of engineering and technology. Your encouragement helps students see the **connection between their creations today and their career pathways tomorrow**.

As you lead your teams through this journey, remember the **profound impact you have on shaping their futures**. Your support and belief in their abilities can inspire a lifelong pursuit of innovation and discovery. **Thank you for being an integral part of the EMDC** and for your dedication to inspiring the next generation of engineers and scientists.

Omar Abdelati

Graduate Structural Engineer
ISG

James Blagborne

*Technology and Quality
Manager*
Celanese

Carissa Blagborne

Stockton City Council Member
City of Stockton Minnesota

Katie Bourgoyne

Materials Engineer
Geotek

Dr. Gary Boyd

Retired
3M

Jason Bruns

Director
Minnesota State Engineering
Center of Excellence

Aaron Budge

*Associate Dean of the College of
Science, Engineering and
Technology*
Minnesota State University,
Mankato

Sujata Dutta

Director - Store Operations
Target Corp.

Tyler Ellefson

Quality Engineer
Benchmark Electronics

Preston Frazier

Education Advisor
Pitsco Education

Jessica Gisi

Supplier Development Engineer
Benchmark

Joe Ibberson

Plant Engineering Supervisor
3M

Patrick Keane

*City Council Representative,
Ward 1*
City of Rochester, Minnesota

Josh Kvasnicka

Senior Structural Engineer
ISG

Alex Langsjoen

Development Manager
SPARK Children's Museum

Mary Lebens

*Information Technology
Instructor*
Anoka Technical College

Dawn Lubahn

Director of Secondary Relations
Minnesota State College
Southeast

Cameron Maass

Quality Engineer II
Benchmark Electronics

Jake Mason

*Operations & Plant Engineering
Manager*
3M - New Ulm

Lisa Mason

Business Analyst
University of Minnesota -
Rochester

Dylan Musgjerd

Structural Engineer
ISG

John Neau

CNCT Instructor
Saint Paul College

James Persoon

Retired
Federal Cartridge

Amrika Ramjewan

Alliance Manager
Mayo Clinic Platform

Eric Reuss

Lead Test Engineer
Geotek

Ricardo Rivera

*Technology Education Teacher -
Industrial Arts*
Bloomington Public Schools

Donald Schell

Instructor
Milwaukee Area Technical
College

David Sklenicka

*Rochester Community &
Technical College*

Jerry Sosinske

Engineer / Science Educator
Science from Scientists

James Thompson

CryoEM Specialist, Prof
Biophysics
Hormel Institute - UMN

Nadia Wood

Senior ML Engineer
Mayo Clinic

Christine Wyatt

Chief of Staff, Power Systems
IBM

Jeff Ziegler

*Operations Manager,
Neurosurgery*
Mayo Clinic



Junior Division Teams

Team 1**The Boney Botz**

9:30

Pine Island Engineering Club

11:00

Coach: Peter Johnson

Team:*Brekken Leyson, Caiden Grenier, Ian Johnson, Luke Johnson, Sawyer Marsh, Silas Johnson***Team 2****The Human People**

9:45

Pine Island Engineering Club

11:15

Coach: Peter Johnson

Team:*Isaac Geier, Parker Johnson, Isahia Caskey***Team 3****H.A.N.D.S**

10:00

Pine Island Engineering Club

11:30

Coach: Peter Johnson

Team:*Aiden Ties, Eddie Derksen, Johnathon Weis, Jordan Larson, Logan Pyfferoen, Micah Holeyfield, Parker Luedke, Ted Davis***Team 4****Awesome All-Graders**

10:15

Pine Island Engineering Club

11:45

Coach: Peter Johnson

Team:*Alayna Bowman, Aria Frank, Claire Baird, Leyton Novoty, Maggie Quest, Oscar Baird, Phoebe Hoff, William O'Byrne***Team 5****Koren Academy**

10:30

Homeschool

12:00

Coach: Ben Koren

Team:*Davian Koren, Dominic Koren, Emma Koren, Ashley Schmidt, Josey Schmidt, Jeron Brown, Spencer Thompson, Cash Dahl, Jacksie Dahl, Amalia Peterson, Danen Peterson***Team 6****Totally Awesome Geniuses**

9:30

Mount Ayr Elementary School

10:45

Coach: Dara Greenland

Team:*Kinsley Newton, Nash Routh, Kaelyn Schafer, Kenzi McAlexander, Easton Weber***Team 7****The Scientific Amputees**

9:45

St. Francis de Sales

11:00

Coach: Barry Melcher

Team:*Leah Hellendrung, Abigail Lambert, Nolen Larson, Lily Paulson, Kylee Snider, Svendson Undem, Elizabeth Zwisler***Team 8****Losing Your Marbles...**

10:00

Akron-Westfield

11:15

Coach: Tamara Schram

Team:*Lainey Higman, Saelah Boie, Teygan Schram***Team 9****Factors of Technology**

10:15

Anthony Acres School

11:30

Coach: Nate Otto

Team:*June Reck, Noah Curtis, Theo Hinkle, Sam Ede***Team 10****Tot Bot**

10:30

Pine Harbor Christian Academy

11:45

Coach: Jennifer Henderson

Team:*Trevor Ohmann, Parker Taylor*

Team 11	ISLA Innovators	Team:
10:45	<i>ISLA Academy</i>	<i>Emma Perrin, Reese Bailey, Charley Willis, Leo Thoele</i>
12:00	Coach: Adriana Maldonado	
Team 12	Trilogy 7/8	Team:
9:30	<i>Trilogy STEM Academy</i>	<i>Elijah Katkov, Owen Muchowski, Jack Dehmer, Stanley Gozel, Andrew Sidlyarevich, Brian Packard, Miles Liepke</i>
11:00	Coach: Lyndsey Langston	
Team 13	Brainiacs	Team:
9:45	<i>New Century School</i>	<i>Rahma Amin, Salma Mohamed, Riyan Shukri, Amal Yusuf, Faiza Yusuf</i>
11:15	Coach: Brad Blue	
Team 14	Hand It Over and Run!	Team:
10:00	<i>New Century School</i>	<i>Zayed Alhoshan, Abdullahi Hussein, Suleman Muhumed, Nuh Musse</i>
11:30	Coach: Brad Blue	
Team 15	The Brainiacs	Team:
10:15	<i>Cotter Junior High School</i>	<i>Gavin Slavey, Mateo Doerr, Ifraz Mohmed, Will Stier, Clay Cagle</i>
11:45	Coach: Eric Paulsen	
Team 16	Engineer Pioneers	Team:
10:30	<i>Alexandria Community Christian School</i>	<i>Spencer Moore, Elijah Cordes, Alaina Larson, Michelle Ebnnet, Josiah Lukes, Cade Olsen Canton, Bella Qual, Griffin Bugher</i>
12:00	Coach: Katie Aamold	
Team 17	Crazy Cardiologists	Team:
10:45	<i>Alexandria Community Christian School</i>	<i>Aubrey Larson, Shane Timm, Ella Bollman, Auvry Auren, Juniper Weiser, Jackson Crouse, Tianna Brewer</i>
12:15	Coach: Katie Aamold	
Team 18	The Chosen Ones	Team:
9:30	<i>Wildlands School</i>	<i>Baylee-Mae Sahr, Collin Williamson, Azura Walter, Reidyn Koenig</i>
11:00	Coach: Alexa Hurd	
Team 19	The Adams	Team:
9:45	<i>Wildlands School</i>	<i>Michael Ambler, Joey Irwin, Dylan Dircks</i>
11:15	Coach: Alexa Hurd	
Team 20	Angrybirds 2.0	Team:
10:00	<i>Wildlands School</i>	<i>Jaxan Hanson-Shakal, Jeremy Christoph, Jonas Schmitz</i>
11:30	Coach: Alexa Hurd	

Team 21 Human Baguettes

10:15 *Wildlands School*
11:45
Coach: Alexa Hurd

Team:
Cashton Williamson, Leo Bement, Carter Nelson

Team 22 On Short Notice

10:30 *Wildlands School*
12:00
Coach: Alexa Hurd

Team:
Josselyn Lane, Elsy James, Jersey Brown

Team 23 The Fabulous Frogs

10:45 *Wildlands School*
12:15
Coach: Alexa Hurd

Team:
Lyrik Bergerson, Jonah Oster, Lynnsi Kruschke

 **Senior Division Teams**

Team 31 Gold Rush

9:30 *Lake Holcombe School*
10:50
Coach: Andy Lorenzen

Team:
Hayes Bach, Danny Sinette, Kaleb Willmarth, Seth Tainter, Tye Yeager, Ryley Craker

Team 32 Pius XI

9:50 *Pius XI Catholic High School*
11:10
Coach: Cathy Zurawski

Team:
Kim Albright, Anthony Ehlinger, Drew Miler, Elise Sepulveda, Murphy Roszak, Jared Lindbloom, Hannah Hickethier, Ellie Baudry, Christen Woodfaulk, Cassie Strizic, Zach Nowak, Shannon Terry

Team 33 Senior Scientists

10:10 *Sumner-Fredericksburg High School*
11:30
Coach: Amy Price

Team:
Alivia Seehase, Hillary Trainor, Ava Schult, Myla Trask, Claire Rucker, Joseph Blasen, Jesse Jones, Colton Zupke

Team 34 BioCoug Innovators

10:30 *Sumner-Fredericksburg High School*
11:50
Coach: Amy Price

Team:
Kallen Wilharm, Jaxon Willems, Ty VanEngelenburg, Caden Trainor, Davis Van Sickle, Chloe Bolte, Isabel Christensen, Maya Collazo

Team 35 Technology Doctors

9:30 *Chatfield High School*
10:50
Coach: Nora Gathje

Team:
Madelynn Keller, Ella Lane, Andrew Eickhoff, Kael Simpson, Brady Irish, Gavin Carr

Team 36 Williams Bay Engineering Club

9:50 *Williams Bay High School*
11:10
Coach: Amanda Anderson, Jacob White

Team:
Liam Beth, Nicholas Kwiatkowski, Dylan Karcher, Caleb Marten, Jose Pilo, TJ Neiger, Blake Reynolds, Will Sorensen

Team 37	Knight Stars	Team:
10:10	<i>Lake Crystal Wellcome Memorial</i>	<i>Megan Lawver, Parker Bergemann, Vivian Collins, Lohoney</i>
11:30	Coach: Randy Van Genderen	<i>Powell, Samuel Bartelt, Destiny Alberty</i>
Team 38	Spaceducks	Team:
10:30	<i>Wildlands School</i>	<i>Danica Strauss, Aryanna Bergerson, Samantha Hanson,</i>
11:50	Coach: Alexa Hurd	<i>Elijah Gundry, Daniel Madsen</i>
Team 39	Bob's Builders	Team:
9:30	<i>Wildlands School</i>	<i>Jane Black, Aryanah Brown, Sophia Wanke</i>
10:50	Coach: Alexa Hurd	
Team 40	Marty McFly's Mechanics	Team:
9:50	<i>Waunakee High School</i>	<i>Emily Acker, Jaxon Beck, Jessica Bugielski, Carter Bush,</i>
11:10	Coach: Tammy Rademacher	<i>Elisa Gamba, Jack Lutz, Sawyer Maly, Devin Sparby, Gideon Stephenson, Sydney Tasker</i>
Team 41	Atomic Smash	Team:
10:10	<i>Waunakee High School</i>	<i>Finn Alsteen, Parker Andreson, Patrick Fraker, Mina Khalil,</i>
11:30	Coach: Tammy Rademacher	<i>Cam Marionneaux, Andrew Meintjes, Greyson Quint, Lars Swanson, Brady Wallner</i>
Team 42	Doc Rebels	Team:
10:30	<i>Southland Physics</i>	<i>Sam Boe, Jack Bruggeman, Jessie Hanson, Cody Krull,</i>
11:50	Coach: Paula Mortenson	<i>Lukas Young</i>
Team 43	The Medical Mob	Team:
9:30	<i>St. Ansgar</i>	<i>Kinsey Anderson, Max Beland, Hannah Clevenger, Aspen Falk,</i>
10:50	Coach: Devin Schwiesow	<i>Kaelee Hicken, Morgan King, Alex Lenz, Drew Powers, Carsen Sparrow</i>
Team 44	New Berlin Eisenhower	Team:
9:50	<i>New Berlin Eisenhower</i>	<i>Gabby Kazinski, Becca Hall, Owen Schaar, Lucas Anderson,</i>
11:10	Coach: Dana McLaren, Devin McKinnon	<i>Paul Krueger, Bella Kurth, Rowan Wells, Anthony Studer, Anthony Blochowiak, Quinn Shields, Alex Teller, Kyle Wisniewski, Emma Smallwood, EJ Gabor, Anna Metcalf, Amanda Oberheu</i>
Team 45	Digestive Demons	Team:
10:10	<i>Anoka High School</i>	<i>Jackson Provoncha, Luke McDonnell, Hanna Alquist, Taylor Sundeen,</i>
11:30	Coach: Todd Hunter	<i>Zachary Anderson, Matthew Smith, Allyson Tanner, Logan Brent</i>
Team 46	Body Builders	Team:
10:30	<i>West Hancock High School</i>	<i>Evan Hinders, Amelia Collins, Whytnie Johnson, Mallory Leerar,</i>
11:50	Coach: Susan Carlson	<i>Sydney Tue, Eden Nielsen, Kaitlyn Deutsch</i>

Champions & Redesign Rounds

Teams participating in the Redesign Round and those advancing to the Champions Round will be announced at 1:00 PM. Team time assignments will be shared at that time.

Be at your machine at your assigned time!

Champions Round

	Go #1	Go #2
Team A	1:30	2:55
Team B	1:55	3:20
Team C	2:20	3:45
Team D	1:40	2:45
Team E	2:05	3:10
Team F	2:30	3:35

Redesign Round

	Jr Div.	Sr Div.
Team G	1:20	1:20
Team H	1:28	1:30
Team I	1:36	1:40
Team J	1:44	1:50
Team K	1:52	2:00
Team L	2:00	2:10
Team M	2:08	2:20
Team N	2:16	2:30
Team O	2:24	2:40
Team P	2:32	2:50
Team Q	2:40	
Team R	2:48	
Team S	2:56	
Team T	3:04	
Team U	3:12	
Team V	3:20	
Team W	3:28	

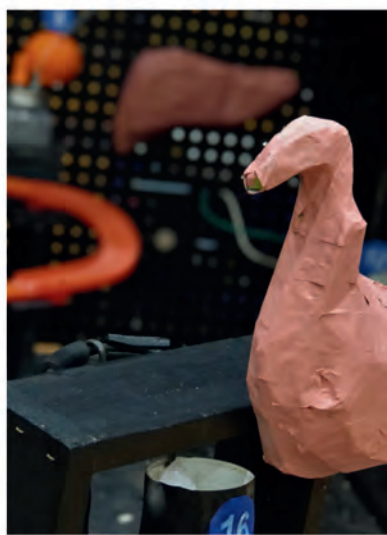
Acknowledgments

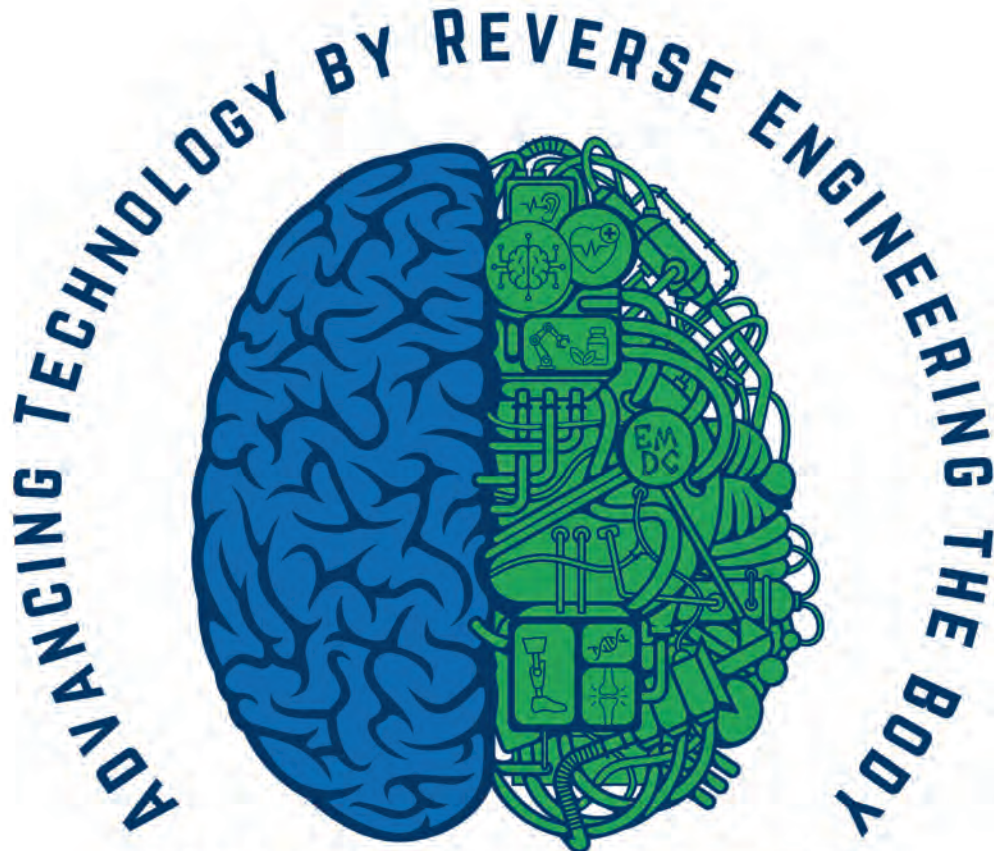
Thank you to all the regional contest organizers, staff, judges, volunteers, and others who have helped to make this event a success! A special thank you to the 2024 EMDC Championship Host, Rochester Community and Technical College, and Jason Jadin. Thank you to our sponsors and academic partners – without their support, this program would not be possible!



A SPECIAL THANK YOU TO OUR ACADEMIC PARTNERS!







HUMAN TO TECH **TRANSFER**



MINNESOTA STATE Engineering Center of Excellence

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