

## **2025 DESIGN EXPO**

Student Information Session 3/20/25

enterprise program



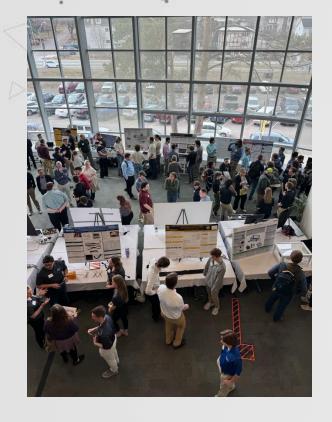




## Agenda for today

- 1. Design Expo Schedule
- 2. What to expect on the day of the Design Expo
- 3. The video presentation
- 4. Posters/Visual aids at the table
- 5. Design Expo Awards
- 6. Q&A

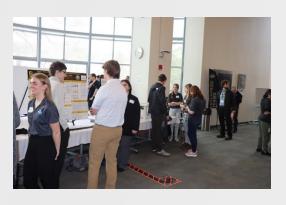
## Design Expo 2024













# Thank you for registering for the 2025 Design Expo

#### What is Design Expo:

Design Expo features student design projects from throughout Michigan Tech, including Senior (Capstone) Design classes, Enterprise Program teams, Fundamentals of Engineering class projects, and various projects from other departments around campus.

Date: April 15, 2025

#### **Student Showcase**

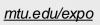
Time: 10 am - 2 pm

Location: The Van Pelt Opie Library & MUB Ballroom

#### **Social Hour and Awards**

Time: 2:30pm - 4:30pm

Location: Rozsa Center for Performing Arts









## **Schedule of Events at Design Expo**

Saturday, April 12, 2025 @ 11.59 PM

Deadline for video submissions

Monday, April 14, 2025

Virtual Student Showcase - Project videos go live

Time: 2:00 pm

Location: Design Expo Website

Tuesday, April 15, 2025

Student Showcase – In person interaction with judges

Time: 10 am - 2 pm

Location: The Van Pelt Opie Library & MUB Ballroom

Social Hour and Awards Ceremony

Time: 2:30 pm - 4:30 pm

Location: Rozsa Center for Performing Arts







## **Design Expo Workshops**

Design Expo Workshops conducted by the Van Pelt and Opie Library

March 13: Explain Your Project to Anybody

March 19: Posters, Images & Visualizations

March 27: Creating & Editing Videos

April 2: The Finishing Touches

Register here







#### Set-up

Your team may begin setting up your booth as early as 8:45 am. Set up must be complete by 9:45 am (15 minutes before the start of Expo)

#### **Kick-off**

Design Expo will start at 10 am. To kick off the event, a short welcome will be delivered by the Design Expo committee. (About 20 minutes)

#### **Attire**

The dress code for Design Expo is business casual or business professional. Team-branded attire is acceptable. Sticker name tags will be provided.







#### **Student Showcase**

The student showcase starts once the welcome ends and will last until 2 pm.

#### **Table Location**

Enterprise teams – East Reading room

Senior Design teams – Main Hall

Student projects and Engg fundamentals teams – MUB

#### **Social Hour**

Starting at 2:30 p.m., you are invited to a social hour at the Rozsa Center for the Performing Arts. There will be light refreshments, entertainment, and door prizes.

#### **Awards Ceremony**

At 3:30 p.m., we will begin the Design Expo Awards Ceremony, where student teams will be recognized, and more than \$3,000 in cash will be awarded.





#### **Judges**

Your team will be assigned 3 - 5 judges. These judges will review your video and booth. Judges are not guaranteed to be content subject experts.

#### **Michigan Tech Community**

You can expect to see Michigan Tech students, faculty and staff, and campus administrators.

#### **Campus Visitors**

Due to the visibility of this event, you will likely see campus visitors from tours and the local community.







#### **Industry Sponsors and Alumni**

Many sponsors, industry professionals, and alumni travel especially to serve as Design Expo judges and attendees.

#### **Local K-12 Students**

In partnership with Admissions and The Center for Educational Outreach, 8th graders from Houghton and Calumet schools have been invited to check out the Design Expo.

#### **Families of Participating Teams**

We invite your families to join in the Design Expo fun and celebration!







# Design Expo website - (Very) Helpful webpages

Design Expo Roadmap: From Registration to Event Day

Step by step walkthrough from project registration to day of the event

**Design Expo Team Resources** 

All resources you need in one place







## THE VIDEO PRESENTATION

Start your videos early. Don't stress on the day videos are due

#### **PLAN AHEAD**

- Consider making a script
- Add images & videos, consider recording software early
- Consider lighting and record in a quiet space

#### **VIDEO DURATION**

Senior Design & Project Teams 4 mins or less Enterprise 7 mins or less

#### **ACCESSIBILITY MATTERS**

This means:

- Description of visuals
- Captions







# PROJECT SPONSOR CONSIDERATIONS

VIDEO SUBMISSIONS Due April 12, 2025, by 11.59PM

#### Be sure to consider:

- Confidential or proprietary information
- Intellectual property
- The use of your sponsor's name and logo
- Be sure to consider looking over your project agreement before finalizing your video

This will affect not only the current project but future projects, too







## **SUBMISSION DUE DATE**

Please submit your video, video concept, or presentation to your sponsor before you submit your final work for the Design Expo.

Your team's video needs to consider technical content but need not do a deep dive into the technical aspects of your project.

Submit an MP4 file. Helps us with uploading to YouTube Design Expo channel







# POSTER/VISUAL AID (On the day of Design Expo)

#### Don't Panic or Overthink the Visual Aid

#### **Get Creative:**

Bring elements of your project. Some teams may be able to bring a piece or all of their project to display.

#### **Focus on Visual Data:**

Grab video and images now. While testing, building, and modeling your projects now, try to take videos and pictures in real time.

#### **Engage the Conversation:**

Get comfortable talking about your work. Your focus should be more on a conversation with attendees than on them reading a poster and then asking questions.







## **JUDGING PROCESS**

#### Part 1 – Video review

Video review will begin on Monday, April 14.

Judges will receive a ballot from RocketJudge, and link to your project video

Judges view the video and form an initial opinion of your project

#### Part 2 - In-person interaction and Q&A

Q&A judging will be in-person on the day of Design Expo (April 15). You will have the same judges assigned to your video and Q&A session.







## **Judging Criteria**

#### **ENTERPRISE TEAMS**

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JUDGING CRITERIA - ENTERPRISE TEAMS							
Criteria	Description	Weight	Score (1-10)	Total Weighted score			
Enterprise introduction and Projects	- Does the team provide a proper introduction of their Enterprise and the associated projects?  - Are the projects providing real world learning opportunities?  - Is there evidence of learning and growth across projects?	20%					
Problem-Solving Approach & Critical Thinking	Across the different projects, does the team demonstrate strong problem-solving skills, subject distinsing, and structured approaches? - Have they applied research, date, or industry invigits effectively? - Have effectively of their analyse produces and designs attention approaches solving (?? - On they explore multiple solutions, evaluate trade-offs, and apply logical reasoning? - Have they demonstrated creatively and innovative thinging intelligence of - Have they demonstrated creatively and innovative thinging intelligence of the size of the solution of the	20%					
Teamwork & Cellaboration	At there colour collaboration and contribution from all members across different projects?  -Have they successfully integrated multiple disciplines (e.g., engineering, computing, business, delegit)?  -Do they build on each other's experies and leverage any interdisciplinary strengths?  -Is there evidence of teamwork in their problem-solving process?	15%					
Real-World Relevance & Feasibility	-Do the projects address meaningful problems with notential real-versid applications?  -Have the solutions been well-researched, practiced, and feasible?? Are they scalable or imprementable?  -Has the team considered real-world implementation, scalability, or potential barriers? # applicable, is the prototype/model-well-rescuted and supported by data or testing?	15%					
Communication & Explanation Clarity	Cast the transitionally articulate the objections, solutions, and impact of each project? In their presentation of organized, englight of each you burders and only the organized organized and only the organized orga	30%					
Qualitative Feedback							
Strengths of the Project:							
Areas for Improvement:							
Overall Impression & Final Remarks:							

#### **SENIOR DESIGN TEAMS**

JUDGING CRITERIA - SENIOR DESIGN TEAMS							
Criteria	Description	Weight	Score (1-10)	Total Weighter score			
- Townson - Donath and the state of the stat	-Now well does the team define and frame the problem?  Do they clearly explain why this problem matters, who it affects, and what the consequences are lift remains unsolved?  Does the team demonstrate strong research, data, or real-world insights to justify the problem's significance?	20%					
Problem-Solving Approach & Critical Thinking	How effectively does the team analyze the problem and design a structured approach to solving IE?  Do they explore multiple solutions, evaluate trade-offs, and apply logical reasoning?  - Have they demonstrated creativity and innovative thinking in their approach?	20%					
Teamwork & Collaboration	- Does the team work well together, with clear roles, contributions, and effective collaboration?  - Do they build on each other's expertise and leverage interdisciplinary strengths?  - Is there evidence of teamwork in their problem-sohing process?	15%					
Project Execution & Feasibility	- Is the proposed solution well-researched, practical, and feasible?  - Has the team considered real-world implementation, scalability, or potential barriers? If applicable, is the prototype/model well-executed and supported by data or testing?	15%					
Communication & Explanation Clarity	Can the team clearly similarity structure the objectives, solidation, and impact of each project?  - Either prematured-low-legaractic engaging and any solidation specific control of the	30%					
Qualitative Feedback							
Strengths of the Project:							
Areas for Improvement:							
Overall Impression & Final Remarks:							







## **Design Expo Awards**



**Based on Judging** 

First place - \$400 Second place - \$250 Third place - \$150 Honorable mentions (4) - \$100

#### **Enterprise Awards**

**Based on Judging** 

First place - \$500 Second place - \$300 Third place - \$200 Honorable mentions (1) - \$100

#### **Image Contest**

Based on photos submitted for award consideration

First place - \$100 Second place - \$100 Third place - \$50



#### **Student Awards**

**Based on Nominations** 

Outstanding Leadership - \$100 Rookie Award - \$100 Innovative Solutions - \$100

#### **Faculty/Staff Awards**

**Based on Nominations** 

Outstanding Enterprise Advisor - \$100 Outstanding Sponsor - \$100 Behind the Scenes - \$100 Module Master - \$100

To be eligible, Enterprise students must apply by April 1st at 11:59 pm.

For more details and nominations: https://www.mtu.edu/enterprise/scholarships-awards/enterprise-awards/



# Design Expo Innovation Award Q&A

Lisa Casper, Associate Director Startup Capital Programs, Office of Innovation and Commercialization Mike Morley, Director, Technology Commercialization, OIC



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Office of Innovation
and Commercialization

# WHAT IS THE INNOVATION AWARD?

AN AWARD GIVEN FOR DEMONSTRATING THE MARKET POTENTIAL AND PRODUCT-MARKET FIT.

To be eligible you must be an enterprise or senior capstone team. The deadline to apply by April 1st, 2025, at 11:50 pm. https://docs.google.com/forms/d/168sNXJebEhvWdXtm-xtp-g3BUlziPNLE08oYiffOGFo/preview







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This year, OIC and Milwaukee Tool are co-Sponsoring prizes-

Prizes are Double from Previous years!

1st - \$500

2nd - \$300

3rd - \$200



Who is qualified to apply?

- **✓** Enterprise teams
- ✓ Senior Capstone teams
- ✓ your team developed

a new technology, New Process, or New System With Market **Potential** 

**✓** apply before 4/1/25

#### judges' rubric covers 5 areas:

- 1) The Problem How are you addressing it with your Solution?
- 2) Who are your customers?
- 3) How is it Unique from other solutions?
- 4) What is the Value proposition to end-users? Why do they want/need your solution?
- 5) What is your defined plan to move forward?





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and Commercialization







## **Champions of Organization Award**

The second annual Champions of Organization Award, sponsored by CTech Manufacturing, will be given out to one of our Enterprise Teams. The award winner will receive a CTech Manufacturing rolling grill cart at the Design Expo awards!

#### **Eligibility Criteria:**

- 1. Must be an Enterprise team registered to participate in Design Expo 2025
- 2. Fill out the entry form and supply the necessary information one per team (only).

All entries will be reviewed by CTech Manufacturing and their charitable foundation the Intelligent Future Foundation. Finalists will be interviewed at Design Expo.

All entries are due by **5.00 PM on April 1st.** 

The winner will be announced at the Design Expo Awards Ceremony, and the cart will be made available to the winning team immediately!



# Questions?

### **Nagesh Hatti**

nhatti@mtu.edu

#### Website

https://www.mtu.edu/enterprise/involved/expo/registration/