

# TM-24 UNVEILING

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May 26th 2024



**TORONTO METROPOLITAN  
FORMULA RACING**

# SCHEDULE

**12:00 - 12:30**

Registration

**1:30 - 2:30**

Unveiling Presentation

**12:30 - 1:30**

Lunch

**2:30 - 4:00**

Photos & Networking

# OUR TEAM

## Our Goals

To learn. To teach. To produce skilled, experienced engineers and professionals.

**60+**

Members

**20+**

Programs

**300**

New Members  
Interested per Year

**40+**

Companies  
Involved

**30**

Years of Hard  
Work

**3x**

Increase in Women  
in Leadership  
Positions since 2020



# MEMBER DEVELOPMENT

## Focus on Education and Knowledge Transfer

### “Ready to Race” Program

- Full online training course designed in-house
- Basics of each system on the vehicle, business-related skills, manufacturing, and CAD

### High Voltage Safety Course

- Worked with Eintac to develop high voltage training with assessments
- Varying degrees of certification for each level of contact with HV systems

### Alumni Reviews

- Design reviews and virtual meetings with previous team members

### Sponsor Involvement

- Knowledge transfer and tutorials by sponsors (for equipment, design reviews, etc.)

### Mentorship Program

- New members are paired with leads to shadow, help, learn and encourage participation



# ELECTRIC SEASON HISTORY RECAP



**Michigan  
2022**

**15<sup>th</sup>/58 teams overall**

**1<sup>st</sup> Place Business  
Presentation**

**Michigan 2023**  
**26<sup>th</sup>/69 teams overall**

**1<sup>st</sup> Place Business Presentation**

**3<sup>rd</sup> Place Cost Report**

**2<sup>nd</sup> in Ontario**

**7<sup>th</sup> in Canada**

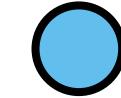
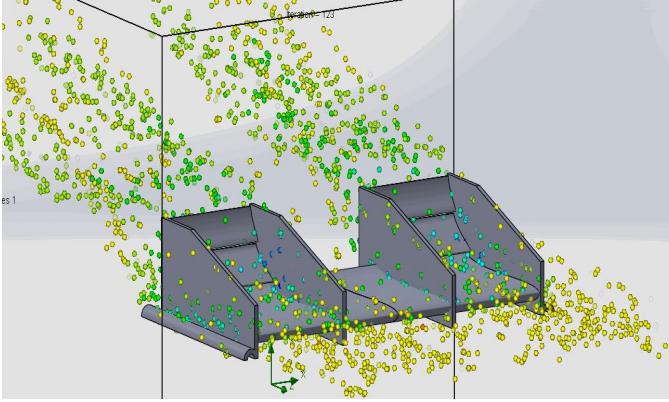
**26th out of 76 teams overall**

**Michigan  
2024**

**Coming soon**

**June 11th-15th**

# 2023-2024 SEASON AT A GLANCE



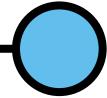
## Design

- Began designing all systems of TM-24, the 2024 car from June 2023 till mid November 2023
- First EV aero package



## Events

- Honda Indy
- AWIM
- GVIC
- Engineering Expo
- Petro Canada 80th Anniversary Open House



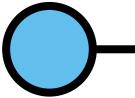
## Manufacturing

- Began manufacturing TM-24 using new methods
- Decreased manufacturing time by 25%

# 2023-2024 SEASON AT A GLANCE

## Rolling Chassis

- Completed manufacturing of the TM-24 frame and vehicle dynamics systems



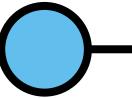
## Orientation & Onboarding

- Ongoing efforts to recruiting from all faculties in the '23-'24 academic year



## Testing

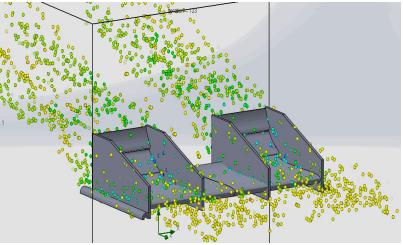
- Successfully tested our vehicle at Honda's facilities.



## Unveiling

- Able to unveil TM-24 with your help and support

# 2023-2024 SEASON AT A GLANCE



## Design

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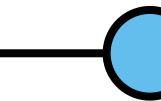
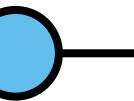
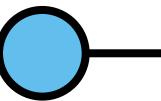
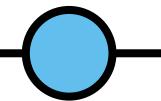
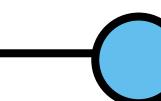
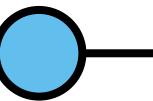
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## Manufacturing

- Began manufacturing TM-24



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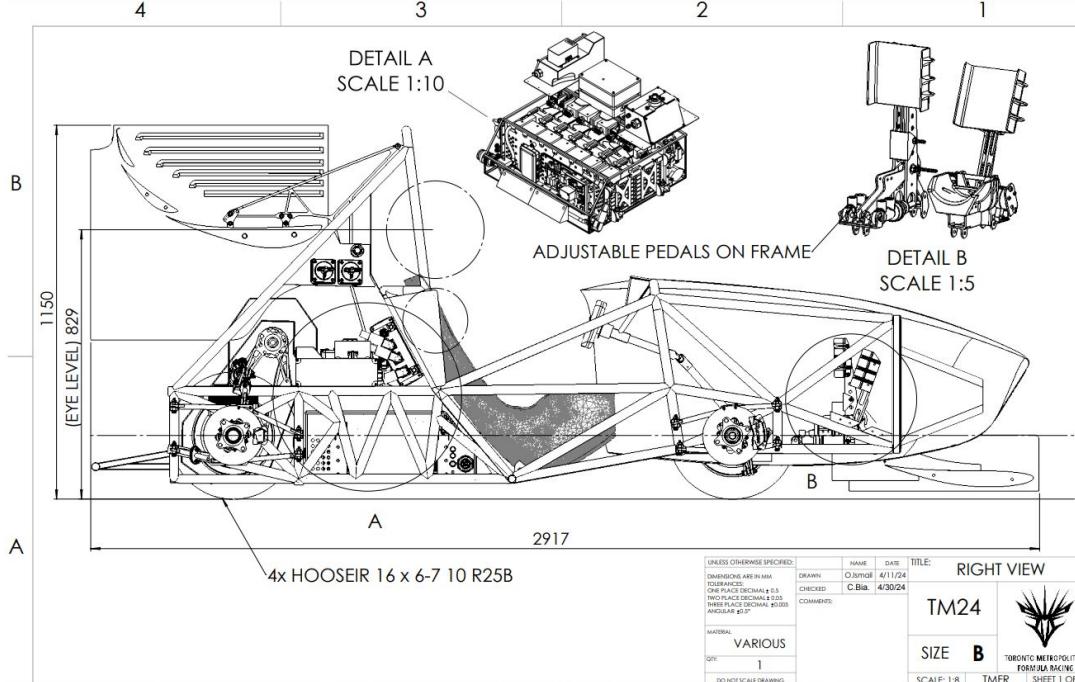
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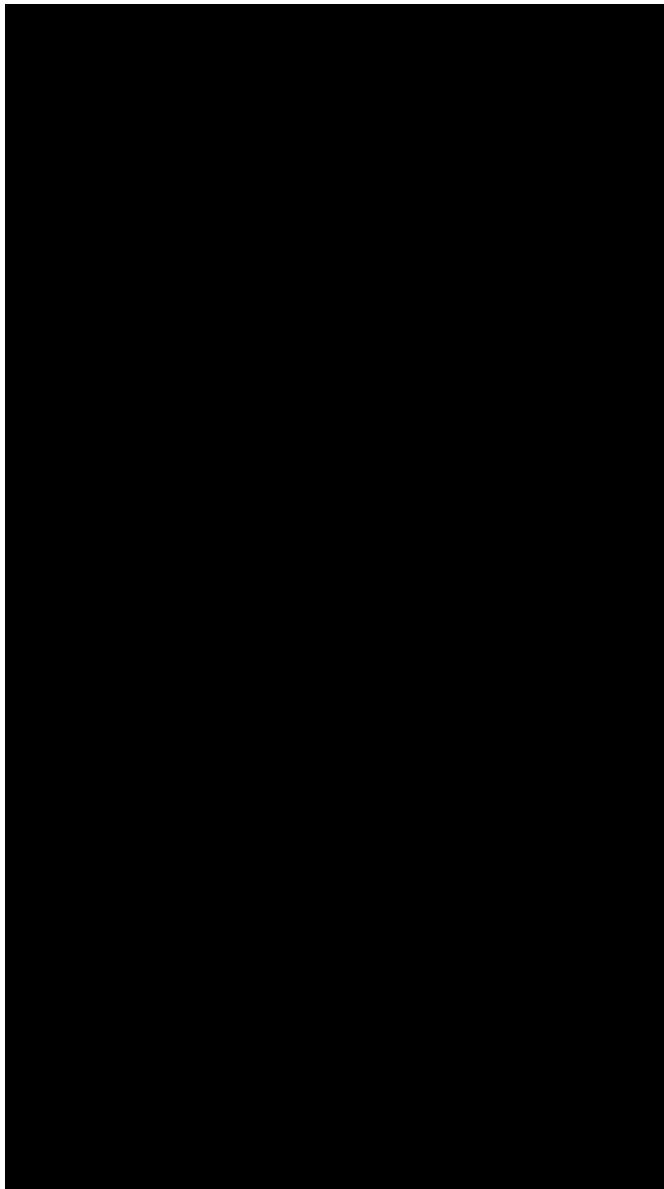
# TM 24 SPECS



**Max Voltage:** 352.8V  
**Capacity:** 7.3 kWh  
**Weight:** 521 lbs  
**Power:** 48 hp (36kw)  
**Torque:** 75 nm  
**Chassis:** Full steel tube space frame



# CELEBRATING 30 YEARS OF FORMULA RACING



# DRUM ROLL PLEASE...

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