



R o b o t i c
S y s t e m s
E n t e r p r i s e

Who We Are, What We Do, and
How to Find Your Fit!

The Enterprise Program

- Michigan Tech adds the unique experience of the Enterprise Program to the undergraduate experience
- Enterprises are run in a business structure. STEM, accounting, business, and marketing students come together to create dynamic teams specializing in various areas.

Our Programs

- At RSE, we believe in advancing knowledge of science and technology at high school and collegiate levels.
- These goals are met through the implementation of the following programs:
 - FIRST
 - Sail Bot
 - NURC
 - Research Projects and Senior Design

So, you're a FIRST kid. Now What?

- MTU is dedicated to learning through experience, which is right up the FIRST graduate's alley
- We believe that through working with experienced engineering faculty, and teaching students, YOU come out a better student.
- RSE allows you to continue your FIRST experience all through college

Robotic Systems Enterprise and FIRST

- We mentor three area FRC teams:
 - Team 857 "Superior Roboworks"
 - Team 2586 "Calumet Copper Bots"
 - Team 3771 "Da Yooper Troopers"
- Team 3771 captured both the Rookie Inspiration and the Team Spirit awards. Team 857 was an alliance captain at the West Michigan district, Team 3771 was an alliance captain at the Waterford district, and Team 2586 was a finalist at the Troy district, making it to the State Championship.

FIRST Competitions - Collegiate

- At RSE, we've heard rumbles that FIRST will be debuting a pilot collegiate level competition at the St. Louis World Championship.
- If these rumors are correct, then we fully anticipate participating next year at Michigan Tech pending details and sponsorship.

SailBot – An Overview

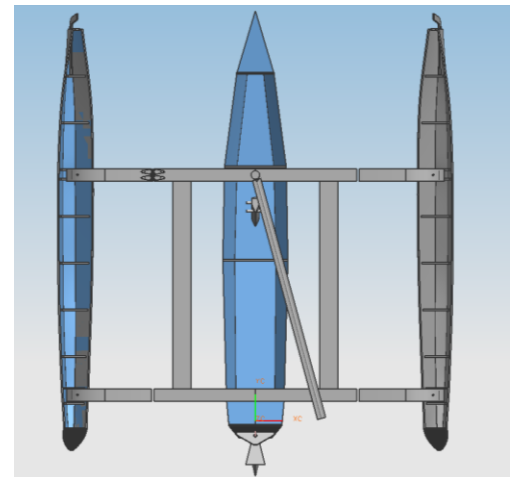
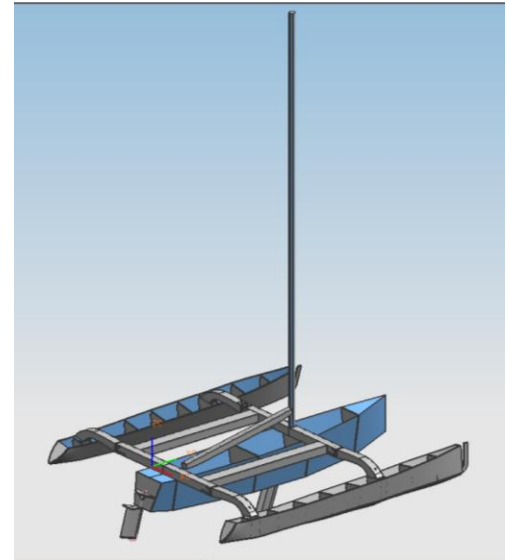
- SailBot is part of the International Robotic Sailing Conference
- Universities from around the world compete to build robotic sailboats
- Boat must complete an obstacle course, and 8 hour regatta autonomously
- There are 2 meter and 4 meter competition classes

SailBot and RSE

- Our SailBot team is a great place to explore your passions for control systems and design!
- Students are finishing up the initial design plans for the first boat, which will be fabricated this coming academic school year.
- SailBot is international, so there is a great opportunity to travel and see the world!
- For the 2011 list of rules and events:
 - http://www.usna.edu/STEM/docs/Sailbot/Sailing_Instructions_2011.pdf

Sail Bot Progress

- The images to the right are examples of some of the design work that has been done towards the Sail Bot project



Senior Design

- Michigan Tech has always been known for technological innovation, and the Enterprise program is no exception.
- Enterprise, when properly utilized, can replace the senior design process.
- Past projects include holonomic drive solutions, 3DF drivetrains, and various control system innovations.

Why Robotic Systems Enterprise?

- Participating in this program allows students to teach and learn in tandem. The variety of activities that RSE participates in allows every student to find a niche to excel in!
- Leadership opportunities are abundant within the program. This group is student driven, with a great advisor to help out now and again.

Stay in Touch!

- Megan Crowley
 - PM me on Chief Delphi at prettycolors91
 - Email me at mmcrowle@mtu.edu
- Feel free to get in contact if you have any questions about RSE or Michigan Tech!