Strategic Education through Naval Systems Experience
Overview

- Our Enterprise Team
- Benefits of Joining an Enterprise
- Why Join SENSE
- Current Project
- Future Projects
- What We Want from You
- How to Join SENSE
Our Enterprise Team

- **Advisors**
  - Dr. Andrew Barnard
  - Dr. Guy Meadows
  - Dr. Nina Mahmoudian
  - Miles Penhale
  - Brian Page

- **Members**
  - Jacob Soter - Program Manager
  - Keenan Kurtz - Business Operations Manager
  - Lorne Newhouse - Project Manager
  - Amanda Marciniak - Webmaster
  - Sean Wilde - Safety Officer
  - Brandon Guster - Security Officer
  - Kyle Pinozek
  - Dayton Pax
  - Charles Hatch
Benefits of Joining an Enterprise

- Student driven, multidisciplinary, teams that work on real world client based projects.
- Provides support in the development of an indispensable skill set sought out by leaders in business and industry.
- Students design, prototype, and manufacture their projects.
- Being in an enterprise looks great on a resume.
- Fulfills senior design requirements.
Benefits of Joining an Enterprise

• Enterprise is run like a real business:
  • Work in student-led teams to solve real-world problems
  • Student driven and managed
  • Responsible for projects each semester
  • Enterprise projects can turn into student run and owned businesses
Near Shore Water Rescue Device

• Sponsors: Keweenaw Bay Indian Community (KBIC) And Michigan Tech Great Lakes Research Center (GLRC)

• Between 2005 - 2014 there were an average of 3,536 fatal, unintended drownings annually

• An opportunity exists to develop a cost effective, remote controlled, emergency water rescue device for rescuing swimmers in the nearshore zone.

• Competition: Hydronalix EMILY Unit (10,000$+)
Why Join SENSE?

• New enterprise on campus with lots of potential.
• Funded by the Office of Naval Research and the GLRC.
• Small teams allow new members’ voices to be heard.
• Ability to test project designs utilizing the Research Vessel, AGASSIZ, on Lake Superior.
• Guest speakers and tours
Why Join SENSE?

• Practical engineering experience is highly sought after by companies
• Access to Laboratory and Marine Equipment at the GLRC
• Learn about current civilian-military employment opportunities
• Unique networking opportunities in DOD fields
• WE WANT YOU! - A successful Enterprise consists of numerous multidisciplinary members
• Note: Joining the SENSE Enterprise program does not require you to join the uniformed service in any aspect.
Potential Future Projects

- Design, Build, and Test systems with a focus on Navy applications
  - Space
  - Air
  - Land
  - Sea
  - Under-Sea
  - Cyber
- 3D Printed Propeller Analysis
SENSE is a new enterprise, we need loyal members who have interests in naval systems.

- Your skills and knowledge gained from your classes.
- Active participation in SENSE related events.
- Openness to new ideas and working in teams.
- Passion and Drive
- ALL MAJORS ARE APPLICABLE
How to join SENSE

• Please put your **name, major, and email** on the signup sheet

• **Submit a resume and 3 paragraph** cover letter to Keenan at **kjkurtz@mtu.edu**
  ○ 1 paragraph on prior experiences
  ○ 1 paragraph on why you want to join the enterprise
  ○ 1 paragraph on what you expect to contribute and gain from SENSE

• Prospective students will be selected by the senior committee.
  ○ We will email you with our decision
  ○ If your application is approved, fill out the Undergraduate Enterprise Enrollment Approval form to register.
  ○ The form must be signed by Dr. Barnard, the advisor
  ○ If accepted, you will be added to the enterprise class for **Spring 2017**
QUESTIONS?