



Great Lakes  
Research Center

# Marine Research Assets Shared Facility (MRAF)



## Professional Staff

### Christopher K. Pinnow

Electronics/Computer Engineer

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Professional Preparation and Education:

- MS Computer Science, Michigan Tech University
- BS Computer Science, Michigan Tech University
- BS Electrical Engineering, Michigan Tech University
  
- Boeing Wave Glider / Wave Glider Management System Operator
- National Instruments LabVIEW Certified Associate Developer
- Possess Michigan enhanced drivers license, completed boaters safety, Red Cross CPR & first aid and USCG cold water rescue training.



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Responsible for technical support of Michigan Tech's on-the-water research activities including the maintenance of science-based electrical, computerized, and mechanical equipment in the University boats and other water related research equipment.

Educates and supports faculty and staff on the use of specialized scientific equipment and esoteric topics, For example: remotely operated vehicles, autonomous underwater vehicles, autonomous surface vessels, and other associated marine technologies.

Mentors students in subject areas typically not covered in their regular coursework and offers technical guidance through hands-on projects augmenting educational enrichment.

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#### Activities:

Co-Investigator in a DARPA funded autonomous surface vehicle program whose purpose is to improve the survivability of small unmanned Navy boats in high sea states.

Previous Co-Investigator in a ARPA-E funded driverless car project where the objective was to improve fuel economy by adaptive routing, platooning and vehicle to vehicle communication.

#### Example Publications:

J Eisbrener, G. Murphy, D. Eade, C. K. Pinnow, K. Begum, S. Park, S.-M. Yoo, J.-H. Youn, "Recycled Path Routing in Mobile Ad Hoc Networks," Computer Communications, Vol 29, Issue 9, pp.1552-1560, May 2006.

Michigan Technological University, Department of Computer Science, August, 2005 – "Simple Application Level Checkpointing of Parallel Programs" C. K. Pinnow, P. R. Merkey