

PROFESSIONAL EXPERIENCE

US EPA R/V *Lake Guardian* — Milwaukee, WI*Head Marine Technician**July 2019—Present*

- Manage science department on vessel and direct daily scientific operations
- Train other marine technicians, crew, and scientists on all vessel and scientific operations
- Plan sampling surveys in coordination with EPA, visiting scientists, and marine crew
- Coordinate all maintenance and calibration of scientific sampling instruments
- Oversee and direct all deck operations and deployment to meet sampling needs
- Direct rescue boat operation, deployment, and recovery; serve as coxswain

*Marine Technician**January 2018—July 2019*

- Marine crew member, live aboard research vessel *Lake Guardian* for 9 month sampling season
- Deploy scientific sampling equipment (including MacArtney Triaxus, plankton nets, SeaBird rosette water sampler, multi-corer, PONAR grab sampler, and more) as well as calibrate, troubleshoot and repair equipment
- Provide support to EPA staff and visiting researchers to ensure survey goals are achieved
- Assist in general maritime operations including: docking and handling lines, operation of anchor windlass, standing watch, rigging, ship maintenance, rescue boat crew, and safety drills

Hamm Speed & Marine LLC — Waukesha, WI*December 2018—Present**Owner and Operator*

- Specialize in restoration and customization of automotive and marine vehicles
- Extensive fabrication of metal including welding
- Experience overhauling complete automotive and marine powertrains

UW-Milwaukee School of Freshwater Sciences — Milwaukee, WI*May 2016—January 2018**Crew Member Assistant, R/V *Neeskay**

- Assisted in deployment and piloting of remote operated vehicle (ROV) from research vessel
- Served as deckhand aboard vessel
- Assisted in equipment loading and unloading, ship operations, and ship maintenance
- Operated hydraulic deck equipment including winches
- Deployed and recovered CTD's, Niskin bottles, nets, and other scientific equipment

Facility Support Technician

- Performed regular maintenance and upgrades on the UW-Milwaukee ROV and supporting systems
- Installed and maintained facility sensor and security system networks
- Planned, organized, and managed outreach events showcasing robotic vehicles and research

R/V *Sikuliaq*, University of Alaska — Fairbanks, AK*July 2016**At-Sea Intern, Marine Advanced Technology Education*

- Assisted ship marine technicians with daily operations
- Assisted marine electrician with design, construction, and documentation of several electrical projects
- Participated in instrument deployment and recovery operations
- Observed JASON remote operated vehicle operations and procedures

UW-Milwaukee School of Freshwater Sciences — Milwaukee, WI*October 2014 – May 2016**Student Researcher*

- Developed environmental robotics in conjunction with small group team members
- Presented annually in student research poster competitions

QUALIFICATIONS

- Possesses leadership skills and effective communication capabilities
- Possesses nautical knowledge, ship terms, knots, vessel operations, and shipboard life
- Extensive experience with maintenance, operation, and calibration of water sampling instruments; Seabird CTDs, MacArtney Triaxus 3D Towfish, and Hydrolab systems
- Extensive experience with benthic sampling equipment including; PONAR, multi-core, and box core
- Experienced with small boat operation and handling (16-30ft)
- Experienced with vessel deck operations including use of cranes, winches, and hydraulics
- Experience working in robotics laboratories and troubleshooting electrical systems
- Experience creating electrical schematics and designing printed circuit boards
- Experience with metal fabrication including welding
- Proficient in C++, C#, Java, LabView, Matlab, and Python programming languages
- Comfortable working with and configuring Windows 7/8/10 systems and a variety of Linux platforms

CERTIFICATIONS & LICENSURE

USCG Merchant Mariner Credential – Ordinary Seaman <i>United States Coast Guard – National Maritime Center</i> Capacity: Ordinary Seaman, Wiper, Stewards Department	Exp. 07-Dec-2022
Transportation Worker Identification Credential	Exp. 07-Nov-2022
Maritime Medical Access Vessel Safety Program 32 Hour STCW Medical Care Provider <i>The George Washington University – Dept. of Emergency Medical Training Center</i>	Exp. 15-March-2021
American Heart Association Basic Life Support (CPR and AED) Program <i>The George Washington University – Dept. of Emergency Medical Training Center</i>	Exp. 15-March-2021
Health and Laboratory Training for Research Personnel <i>United States EPA – Region 5 Health and Safety Office</i>	Cert. March 2018, 2019
Hazardous Waste Operations and Emergency Response 29 CFR1910.120(e)(3)(ii) <i>Cetacean Marine Inc.</i>	Cert. March 2018, 2019, 2020
Marine Crane Operation and Safety <i>Breakwater International</i>	Cert. March 2019, 2020
Amateur Radio License <i>Operation Privileges: Amateur Extra</i>	Exp. 06-02-2024
PADI Advanced Open Water Diver <i>Certified by Aquatic Adventures</i>	Cert. Date 21-Aug-2016

EDUCATION

University of Wisconsin-Milwaukee Fall 2014 – Spring 2017
Completed 98 credits towards Bachelor's degree in Electrical Engineering
Completed 18 credit Computer Science minor