

## MARINE AUTOMATION & CONTROLS

Since 1987, TMS has worked at developing comprehensive marine automation packages using commercial “off the shelf” hardware (COTS). Providing customers with quality reliable solutions for retrofits and new installations.

**Automation System Design:** Retro-fit and OEM control systems designed and installed to ABS, USCG standards, varying in scope from single installations to implementation across all class of vessels. Systems range from simple monitoring upgrades to completely redundant comprehensive plant control packages including vessel propulsion, electrical power generation, and auxiliaries.

**Integration:** Extensive experience with automation hardware, PLC's, AC & DC Drives, Process Controllers, VFD's, Control Networking, and a variety of HMI software packages.

**Turnkey System Implementation:** TMS employs highly skilled Instrumentation, Electrical Engineers and Technicians providing full service automation, control systems and support for the US flag marine market. TMS system designs are installed and commissioned by TMS technicians.

**Tank Level Indicating and Monitoring Systems:** Manufacturer of **LevelCom** Tank Level Indicators. ABS Type approved TLI's for ballast, fuel, cargo and service tanks. Installation, Commissioning and Networking.

**Mechanical and Electrical Design:** From concept to complete systems.

**Service:** Expertise in all current and legacy marine automation packages and technologies.



### EXPERTISE

- **Main Boiler Automation & Controls**
- **Aux Boiler Controls**
- **Alarm & Monitoring Systems**
- **Throttle Control Upgrades**
- **Remote Access of Control Systems**
- **HMI SCADA Systems**
- **Turnkey System Implementation**
- **Fabrication & Installation**
- **ABS Certified Welding**
- **Mechanical Design**
- **Software Development & Testing**

**SIEMENS**

**YOKOGAWA** ◆

**LEVELCOM**  
Tank Level Indicators

**EATON**

**Micro Motion**  
**EMERSON**  
Process Management

 **GE**  
Intelligent Platforms

  
**Allen-Bradley**

### CONTACT US

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**Specific capabilities include, but not limited to:**

- System and Equipment Grooms, Assessments and Training
- Hardware Selection, & Programming
- Shipboard Installation
- System Commissioning
- Technical Drawings
- Technical Documentation (Technical Manuals, Training Packages)
  
- Automation and Machinery Controls
- Integrated Monitoring Systems
- Variable Speed Drive Technology
- Fabrication, Installation and Testing Capabilities
- Mechanical Design
- Electronic Gage Design & Manufacturing
- Copper, CAT-5, Fiber Optic cabling and connectors
- Project Management

**Partial Listing of Customers**

US Maritime Administration (MARAD)	Military Sealift Command (MSC)
United States Navy	United States Coast Guard
Keystone Shipping Company	Matson Navigation
Totem Ocean Trailer Express (TOTE)	Crowley Maritime
Alaska Marine Highways	Elliott Bay Design Group
NOAA	Glosten Associates

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