

JOIN OUR TEAM!

USV Automation Engineer

The role

We are seeking a talented USV Automation Engineer to work with us designing and developing PLC-Control systems for USV's. You would work closely with the engineering team to interface with a range of components, ensuring seamless integration into the vessels control architecture.

Responsibilities

- Design, develop, and maintain PLC-based control systems for USVs.
- Program and configure PLCs to integrate various onboard systems, including motors, temperature sensors, engine controls, and other marine systems.
- Work closely with the engineering team to interface with a range of components, ensuring seamless integration into the vessel's control architecture.
- Develop, implement, and troubleshoot communication protocols such as CAN bus, RS232, RS485, Modbus etc, ensuring reliable data exchange between onboard systems.
- Collaborate with electronics engineers to design control circuits and select appropriate hardware components for automation projects.
- Conduct testing, simulation, and validation of automated systems to ensure high performance, reliability, and safety.
- Assist with the installation, commissioning, and support of USV automation systems in field deployments.
- Maintain documentation for all automation systems, including schematics, wiring diagrams, and programming code.

Requirements

- Bachelor's degree in Electrical Engineering, Automation, Mechatronics, or a related field (or equivalent experience).
- Proven experience in PLC programming, preferably in marine or industrial automation environments.
- Strong background in interfacing electronic systems with PLCs, including sensors, actuators, and engines.
- Practical experience working with marine systems, motors, temperature sensors, and engine control interfaces.
- Experience with Modbus and CAN bus technology and communication protocols.
- Familiarity with marine regulations and safety standards is a plus.
- Strong problem-solving skills and the ability to work in a collaborative, fast-paced environment.
- Excellent verbal and written communication skills.

Preferred Skills

- Experience in developing control systems for USVs, AUVs, ROVs, or other marine vessels.
- Knowledge of HMI/SCADA systems for remote monitoring and control.
- Familiarity with industry standards such as NMEA 2000.
- Ability to work with simulation tools for system testing and validation.

How to apply

For more information, visit our Careers page at: www.sea-kit.com/careers

To apply, please send a full CV to: careers@sea-kit.com.