JOIN OUR TEAM TODAY!

Job Desc ID: AY.JD.IN. 011.A_2025.06.19

Job Title: Controls Engineering Intern

Location: Remote
Type: Internship (Full-Time and Part-Time Hybrid)
Duration: 6 months

About AstraYAN:

AstraYAN is an innovative deep-tech start-up focused on pioneering the future design of marine and naval vessels. We specialize in developing advanced engineering solutions and platform systems for smart and unmanned vessels. As a start-up, we value creativity, collaboration, and adaptability. If you are passionate about shaping the future of marine technology, we would love to have you join our team.

The Role:

We are seeking a motivated Controls Engineering Intern to assist in the development of control systems for autonomous and smart marine vessels. You will gain hands-on experience with MATLAB/Simulink models, control design principles, automation tools, and simulation workflows. This is an opportunity to work on next-generation maritime technologies and learn from experienced controls engineers in a dynamic environment.

Key Responsibilities:

- Assist in model-based design using MATLAB/Simulink for closed-loop control systems
- Support development of Stateflow charts for control logic
- Learn and contribute to code generation processes using Target Language Compilers
- Develop and automate scripts using MATLAB or JavaScript or similar
- Explore industrial communication protocols and PLC-based automation workflows
- Participate in system-level testing and documentation of control modules

What We're Looking For

Minimum Qualifications:

- Completed 3rd year B.Tech or 1st year M.Tech in Electrical, Electronics, Mechanical, or related disciplines
- Familiarity with control systems and simulation tools such as MATLAB/Simulink
- Basic coding experience in C++ or scripting (MATLAB/JavaScript)
- Strong analytical mindset and willingness to learn new tools and platforms
- Ability to collaborate remotely and communicate effectively

Preferred Qualifications:

- Exposure to real-time operating systems (Linux RTOS)
- Basic understanding of PLC platforms and industrial automation systems
- Knowledge of OPC UA, Modbus, or CAN-Bus protocols
- Familiarity with system modeling using SysML/UML
- Interest in marine propulsion, ship operations and platform integration

Why Join Us?

- **Real Impact:** Work on real-world marine control systems and automation platforms
- **Mentorship:** Collaborate with domain experts and learn through hands-on projects
- **Innovation Culture:** Tackle complex problems in autonomy and digital systems
- **Remote Flexibility:** Fully remote with flexible work hours
- **Career Growth:** Pathway to full-time roles or strong references for future opportunities

How to Apply

Send your resume and (optional) project portfolio or GitHub link to **careers@astrayan.com** with the subject line: **"Controls Engineering Intern Application"**