



# JOIN OUR TEAM TODAY!

Job Desc ID: AY.JD.IN.012.A\_2025.06.19

## **Job Title: GUI Development 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 looking for a motivated GUI Development Intern to contribute to the design and development of custom human-machine interfaces (HMI) and visualization tools for smart marine systems. This role offers exposure to modern GUI frameworks, backend interfacing, and data visualization workflows in a real-world engineering environment.

### **Key Responsibilities:**

- Assist in designing and developing intuitive, responsive GUI using QML/Qt and Python
- Interface front-end components with C++ or Python backend modules
- Collaborate with UI/UX designers and engineers to translate user requirements into functioning interfaces
- Conduct functional testing and debugging for GUI performance and responsiveness
- Learn and apply cross-platform development practices (Windows/Linux)
- Contribute to documentation and integration with backend systems or databases

### **What We're Looking For:**

#### **Minimum Qualifications:**

- Completed 3rd year B.Tech or 1st year M.Tech in Computer Science, Data Science, or Electronics
- Basic experience in GUI development using Qt/QML or Python scripting
- Familiarity with frontend technologies like HTML, CSS, JavaScript
- Understanding of backend integration using APIs or C++ modules
- Strong logical reasoning and debugging skills
- Ability to work independently in a remote environment

**Preferred Qualifications:**

- Exposure to embedded systems design
- Exposure to real-time operating systems (Linux RTOS, VxWorks)
- Experience with version control (Git/GitLab)
- Familiarity with communication protocols (OPC UA, CAN bus, TCP/IP)
- Knowledge of socket programming or hardware integration
- Interest in marine systems, embedded development, or industrial automation

**Why Join Us?**

- **Real Impact:** Contribute to user-facing tools deployed in intelligent marine systems
- **Mentorship:** Work closely with GUI and systems engineers in an agile setup
- **Innovation Culture:** Opportunity to explore new ideas and UI technologies
- **Remote Flexibility:** Work from anywhere with flexible hours
- **Career Growth:** Exposure to real-world product development and post-internship opportunities

**How to Apply:**

Send your resume and (optional) portfolio/GitHub link to [careers@astrayan.com](mailto:careers@astrayan.com) with the subject line: **"GUI Development Intern Application"**