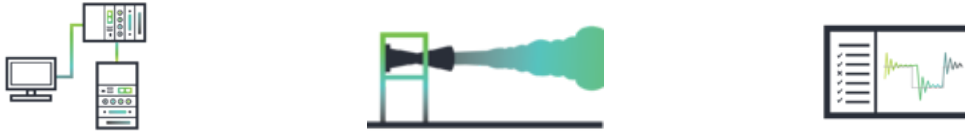


STAR-GOAT

Sequential Tester for Aerospace Research - Ground & Operation Acceptance Testing

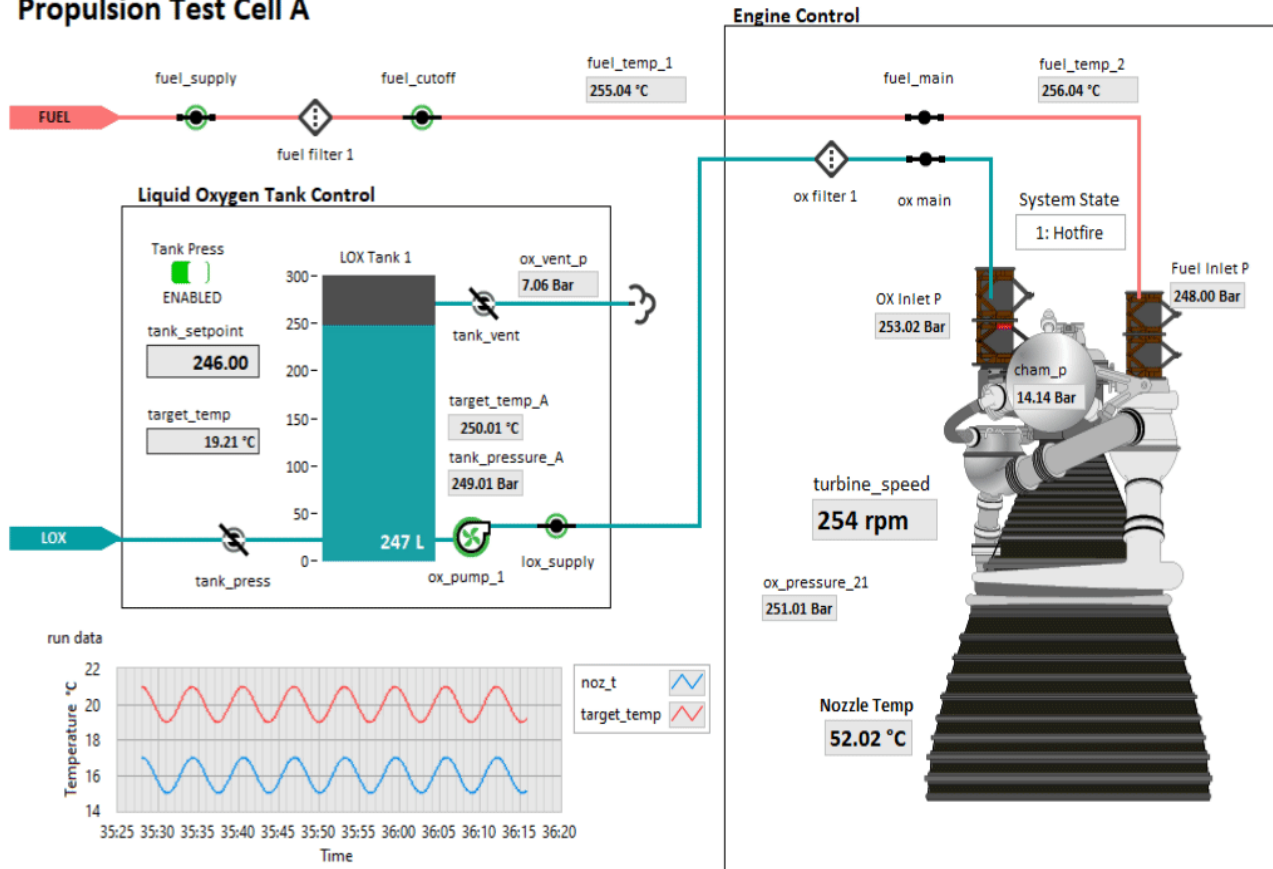
Define, Monitor, and Control High-Speed I/O for your test system



A flexible software for Aerospace Systems' sequence control and execution

STAR-GOAT is packed with features designed to streamline high-speed I/O monitoring and control for your Aerospace test systems. With user-friendly GUIs, you can easily configure acquisition, logging, and control logic. It also boasts custom scaling, virtual channels, and calculated channels to meet the most diverse needs. Visualize I/O signals in tables and historical plots, saving and recalling custom channel lists at will. STAR-GOAT effortlessly blends with NI Linux Real-Time OS and Windows OS, enabling high-speed sequencing and control determinism. This opens up new horizons for system performance and efficiency.

Propulsion Test Cell A



STAR-GOAT supports PXI and CompactRIO systems from National Instruments (NI)



The Aerospace industry demands precision, reliability, and efficiency. STAR-GOAT delivers on all fronts. STAR-GOAT has been successfully implemented in multiple mission-critical applications including satellite thruster test stands. With STAR-GOAT, you are empowered to handle high-speed, deterministic sequences and react to high-speed events effortlessly.

Key Features of the Software

DEFINE	
Easily discover and create IO signals for DAQ hardware (e.g. PC, PXI, cRIO) using NI DAQmx driver	✓
Use High-Level GUIs to configure acquisition, logging, and control logic	✓
Define custom scaling, virtual channels, and calculated channels	✓
MONITOR	
Visualize IO signals in tables and historical plots (save and recall custom channel lists)	✓
Create custom “codeless” P&ID diagrams (bind user controls and data indicators to IO points)	✓
Log data to disk (high-speed and multi-rate logging)	✓
Tare (zero) live data channels	✓
CONTROL	
Run high-speed, deterministic sequences on NI Linux RT (low-speed, non-deterministic on Windows)	✓
Detect and react to high speed event (on NI Linux Real-Time)	✓
Run multiple high-speed, deterministic control loops on NI Linux Real-Time (low-speed, non-deterministic on Windows) <ul style="list-style-type: none"> Select from multiple industry-standard control strategies (Bang Bang, PID, FFT) 	✓

Let’s work together! Visit jki.net/get-started and tell us about your project.