

# IQS LLC | CAPABILITY STATEMENT

Government Contracting & Subcontracting Services

CAGE: 186Z6 | UEI: ELY9E2SLKE48  
ADOT SBC Registered | AZ UTRACS Vendor 23038

## Agile Engineering Technical Support & Validation for Advanced Vehicle Systems

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### COMPANY OVERVIEW

IQS LLC serves as the technical spearhead for vehicle system validation, providing the rapid-response interrogation needed to bridge the gap between prototype R&D and operational reality. We are a specialized engineering support firm delivering high-fidelity data acquisition (DAQ), advanced sensor validation, and technical field support for high-stakes environments.

From the rigorous testing requirements of proving grounds to the safety-critical infrastructure of ADOT, IQS LLC offers the agility of a mobile unit with the precision of a Subject Matter Expert (SME). We deliver the mission-critical data that ensures every system is validated, reliable, and safe for public and tactical deployment.

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### CORE COMPETENCIES

- **Advanced Data Acquisition (DAQ):** Expert configuration of **Dewesoft SIRIUS** systems for high-dynamic signal analysis, power accumulation, and structural durability.
- **Bus Interrogation & Analysis:** Comprehensive diagnostic trace and error analysis using **Vector CANalyzer** to monitor CAN, CAN FD, and Ethernet network integrity.
- **Robotic Vehicle Control:** Precision installation and programming of **ABD Steering Robots** for repeatable, standardized regulatory testing (e.g., NHTSA rollover and transient handling).
- **Advanced Vehicle Diagnostics:** Deep-system interrogation across multiple ECUs to identify cascading faults and network-level anomalies using J2534-compliant platforms.
- **ADAS & Sensor Validation:** Precision calibration and performance interrogation for Lidar, Radar, and Camera systems supporting SAE Level 2-4 autonomous evaluations.
- **Dynamic Vehicle Evaluation:** Proficient in executing high-limit dynamic test procedures, including standardized handling, braking, and stability maneuvers on closed-course proving grounds and performance circuits.

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## PAST PERFORMANCE

*IQS LLC leverages over two decades of technical mastery in high-stakes vehicle engineering environments.*

- **Autonomous Sensor Fusion Validation (SME Role):** Directed technical validation for complex sensor suites. Leveraged **Dewesoft** to streamline real-time data visualization and reduction, allowing for immediate on-site interrogation of sensor performance and accelerating the validation of prototype systems.
- **CAN Bus Architecture Interrogation:** Lead specialist for the diagnostic overhaul of multiple vehicle platforms using **Vector CANalyzer**. Identified critical communication bottlenecks in the prototype phase, preventing hardware-level failures during field deployment.
- **High-Dynamic Robotic Safety Testing:** Executed high-precision safety maneuvers using **ABD Steering Robots** to meet standardized test protocols. Developed custom robot path profiles to ensure consistent, repeatable data collection for lateral stability and rollover risk assessments on specialized tactical platforms.

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## DIFFERENTIATORS

- **Specialized Technical Mastery:** Deep proficiency in high-end industry platforms (**Dewesoft, CANalyzer, ABD Robots**) that larger generalist firms often lack in-house.
- **Tip of the Spear Agility:** Rapid mobilization to proving grounds (e.g., Yuma, Wittmann) to provide immediate on-site engineering and diagnostic support.
- **Strategy-Based Diagnostics:** Applying a structured, data-driven approach to identify "failure modes" and intermittent network issues that standard scan tools miss.
- **Dual-Environment Expertise:** Rare combination of racetrack car/motorcycle control and rigorous proving ground discipline, ensuring precise and safe data collection during limit-handling maneuvers.

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## CORPORATE DATA

- **CAGE Code:** 186Z6
- **UEI:** ELY9E2SLKE48
- **NAICS Codes:**
  - **541330** – Engineering Services
  - **541380** – Testing Laboratories
  - **811111** – General Automotive Repair
- **Socio-Economic Status:** Minority-Owned Small Business / Self-Certified SDB

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