HERMAN TECHNICAL, LLC

ENGINEERING | MODERNIZATION | MANUFACTURING | SOFTWARE

Mission-focused engineering for complex vehicle, electrical, electronic, software, and sustainment requirements. Herman Technical combines reverse engineering, harness development, electronics, custom software, system integration, 3D capture/CAD, prototype development, and low-volume production in one technical workflow.

SAM.gov Registered Entity
UEI: DJH3HH8L4ZK7
CAGE: Pending
Business Size: Small Business
Location: San Antonio, Texas

CORE COMPETENCIES

- Reverse engineering & obsolescence resolution
- Wire harness CAD, formboards & short-run production
- Vehicle/equipment modernization & electrical integration
- Electronic hardware, PCB & embedded control development
- Custom desktop, mobile & web software
- CAN / LIN / K-line / serial protocol analysis
- 3D laser scanning, scan-to-CAD & mechanical design
- Bench simulation, HIL, validation & diagnostic tooling

DIFFERENTIATORS

- More than two decades of hands-on industry experience
- Direct technical involvement from assessment through validation
- Strong capability at mechanical/electrical/software interfaces
- Prototype through low-volume, build-to-order support
- Serialized inspection, revision control & component traceability
- International supplier and parts-sourcing network
- Technical data packages designed for sustainment and repeatability
- Proprietary software and spatial-computing development

PROGRAM FIT: Sustainment • Modernization • DMSMS / Obsolescence • Rapid Prototyping • First Article Development • Specialty Production • Prime Subcontracting • Government R&D;

REPRESENTATIVE EXPERIENCE

Vehicle powertrain and electrical integration; ECU/controller interfacing; vehicle-network integration; custom harness adaptation and redesign; reverse engineering of undocumented electrical systems; connector/pinout identification; protocol decoding and controller characterization; custom diagnostic/configuration software; scan-to-CAD and packaging studies; specialty parts procurement and sustainment support.

Representative experience supports Herman Technical's capabilities and is not presented as federal past performance unless identified in a specific proposal.

TYPICAL DELIVERABLES

- Reconstructed schematics & wiring diagrams
- Connector, pinout & circuit reference tables
- 3D models & 2D manufacturing drawings
- Harness formboards & bills of material
- Bus message maps & protocol documentation
- PCB fabrication / assembly data packages
- Prototype & low-volume production hardware
- Test, inspection & validation reports
- Installation, service & troubleshooting documentation

NAICS	DESCRIPTION
541330	Engineering Services
541511	Custom Computer Programming Services
513210	Software Publishers
336320	Motor Vehicle Electrical & Electronic Equipment Manufacturing
334419	Other Electronic Component Manufacturing
423120	Motor Vehicle Supplies & New Parts Merchant Wholesalers

PSC / SERVICE CODES

R425 - Engineering / Technical Support
DA01 - Business Application Development Support
6150 - Electric Power / Distribution Equipment
5995 - Cable, Cord & Wire Assemblies
5998 - Electrical & Electronic Assemblies

QUALITY / STANDARDS

IPC / WHMA focus; IPC/WHMA-A-620 workmanship; in-process inspection; calibrated tooling; serialized build records; component traceability; controlled drawings and released revisions.

ENGAGEMENT MODEL

Requirements Review → Assessment → SOW & Quote → Engineering & Development → Prototype & Validation → Production / Sustainment

CONTRACTING / PROGRAM INQUIRIES info@hermantechnical.com | Send solicitation, SOW, drawings, technical data, quantities, delivery requirements, and applicable quality/cybersecurity/export-control requirements.