About us......

CymSTAR LLC is a Service-Disabled Veteran-Owned Small Business (SDVOSB) HubZone company established in 2003 to provide Training Systems (TS): new device development, production and modifications. Our success led to the standup of CymSTAR Services LLC in 2007 to provide TS Sustainment Services. Both companies share the same management infrastructure and core systems engineering professionals with well over 30 years experience working together in the Training and Simulation industry. Together, we specialize in TS development, modification and sustainment support to the Air Force, Army, Navy, Marines and Commercial Markets.

CymSTAR LLC Capabilities
Non-proprietary Engineering Design, Prototype & Production
Modifications: Computer Rehost, I/O & IOS, Visauls, Sound System, Motion & Control Loading, OFP, Weapons & Sensors and Threat Environments
Test & Evaluation: Early Prototyping, HW/SW Integration & Troubleshooting
Avionics: Stimulation/Simulation

CymSTAR Services LLC Capabilities
TS Management, Operations & Risk
Aircrew Instruction & Courseware Data & Configuration Management Tools
Contractor Logistics Support (CLS) & field team services for CONUS and OCONUS
Distributed Mission Operations (DMO)
Cybersecurity & ARASQ Certification
TS relocation Services
What We Offer...
Our System Engineering approach maximizes the use of non-proprietary, commercial off the shelf (COTS) products, open system designs, and provide unlimited rights on all the products we develop.

Software Engineering
"Aero" updates achieving "proof of match"
Air & Ground trainer certification
Distributed Mission Operations (DMO)
Aerial Refueling Aircraft Simulator Qualification (ARA SQ)
FAA Qualification Test Guide (QTG) production and certification
Aircraft Avionics
(FMS/FMC, M/CDU, DU, ARINC 610)
Weapons Systems / Defensive Systems
Sensor Systems
(DLRMS, WXR, TCAS, EGPWS)
Sound / Communication systems
(ASST, Simphonics, Cym SOUND)
Motion and controls
(Moog/FCS, SCT, electronics upgrades)
Threat generation systems
(Xcite, One SAF, MAC E, NG-TS)
Computer I/O systems
(UEI, GE IP/VMIC, COTS, custom)
Visual Display Systems / IG
(Virtual, QBD IDX, MetaVR, EP, Q4)
I/O user interfaces

Electrical & Mechanical Engineering
I/O systems Design UEI, GE IP (VMIC), other COTS or proprietary systems
Facility Power Distribution Design AC and DC power distribution cabinets, etc.
Custom Printed Circuit Board Design
Aircraft Avionics Simulation
Computer Aided Design AutoCAD Electrical 2014
MicroStation Power Draft V6i 2013
Electrical Assembly
IPC/WHMA-A-620 Requirements & Acceptance
Cable & Wire Harness Assemblies
J-SDD-001 Requirements
Soldered Electrical and Electronic Assemblies
Certified in-house trainer - IPC/WHMA-A-620
Design Areas:
Packaging – populate cabinets DIN rail or equipment mounting
Facility Design Criteria (FDC)
Structures/Load Analysis (FEA)
Linkage/Controls loading systems
Thermal & Motion Analysis

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