

CAPABILITIES STATEMENT

WHO WE ARE

Genesis provides end-to-end engineering solutions for DoD, NASA, and commercial spaceflight missions. We have manufactured hardware and provided design & analysis expertise for over 30 years.

INFO

CAGE: 08CX3

DUNS: 869177444

UEI: CCNHRX4N3H45

Small Disadvantaged Business (SDB)

180+ employees

CONTRACT VEHICLES

GSA MAS: 47QRAA21D0011

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MIST OMES

NAICS CODES

541330 Engineering Services

541715 Research and Development in the Physical, Engineering, and Life Sciences

541380 Testing Laboratories and Services

541420 Industrial Design Services

CERTIFICATIONS

ISO 9001:2015 Registered

AS9100 3rd-party C-of-C

NISP Compliant

CONTACT

4501 Boston Way
Lanham, MD 20706

240-582-3190

info@genesisesi.com

Rich Barney,
VP of Mission Assurance

WHAT WE DO

Concept Development

- Mission assurance
- Concept design
- Systems engineering
- Risk management

Design

- Mechanical & structural
- Thermal
- Electrical harnessing
- PWB layout & avionics
- Embedded systems & FPGA
- Optical systems

Analysis

- Structural & dynamic
- Thermal
- Power & signal integrity
- Optical ray tracing

Testing

- Thermal vacuum
- Strength, vibrational & modal
- Avionics

Integrated Logistics

- Supply chain management
- Asset & property management
- Kitting & inventory management

Procurement & Metrology

- Component engineering
- Electronic components
- Machined mechanical parts
- XRF counterfeit parts prevention
- CMM dimensional inspection

Products

- Composite structures
- Flight enclosures & chassis
- Vibration isolation systems
- PWB/PCA
- Harnesses & cables
- Thermal blanketing

Specialties

- CubeSats/SmallSats
- High altitude balloon gondolas



OUR EXPERIENCE

ROMAN SPACE TELESCOPE

- Developed composite Instrument Carrier, GSE, & optics
- Designed and fabricated avionics & harnessing
- Conducted structural analysis & test correlations



COMMERCIAL SPACE SYSTEM

- Designed, analyzed, & integrated entire structure
- Designed & fabricated avionics boards & harnessing
- Vibration & thermal vacuum tested system in-house



JAMES WEBB SPACE TELESCOPE

- Designed, fabricated, & tested composite enclosure
- Developed MGSE & EGSE
- Designed & fabricated avionics, harnessing, & blanketing



NEXT GENERATION INTERCEPTOR

- Supporting new homeland missile defense capability
- Designed, manufactured, & tested avionics boards
- Utilized contract manufacturing & state-of-the-art tech



GENSAT-1 6U CUBESAT

- Designed spacecraft bus, MGSE, & PWB layouts
- Fabricated avionics boards & harnessing
- Integrated & environmental tested entire satellite in-house

