

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

AS9100 Registered

ISO 9001:2015 Registered

NISP Compliant

CONTACT

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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

