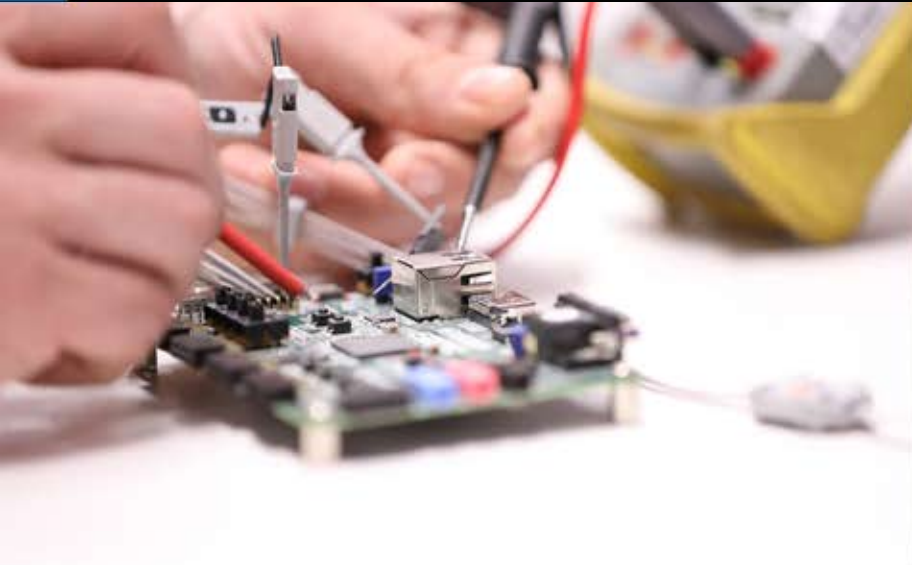GS ENGINEERING
ENGINEERING
An Employee Owned Company

GS ENGINEERING UTILIZES DIVERSE ENGINEERING TALENT AND MANUFACTURING EXPERTISE

to reverse engineering components and systems when technical data is not available, supply chain capabilities have changed, and material specifications are obsolete

- Portable high-accuracy digitizing arm

- Hard probe and 3D laser scanning

- Direct definition for additive manufacturing, high-quality surfacing, or native CAD parametric solid modeling from scan data

- Metallurgical Analysis: mechanical testing, scanning electron microscopy, surface hardness, & optical emission spectroscopy

- Fine Element Analysis: Validate use to new materials when legacy materials are no longer available

- Creation of New Technical Data Package (TDP) up to Government Level III

ANALYZE. UPDATE. RE-DESIGN.

⬧ Obsolescence

Replacing obsolete TTL or CMOS logic components with faster, more efficient technology while still considering EMI/EMC ramifications
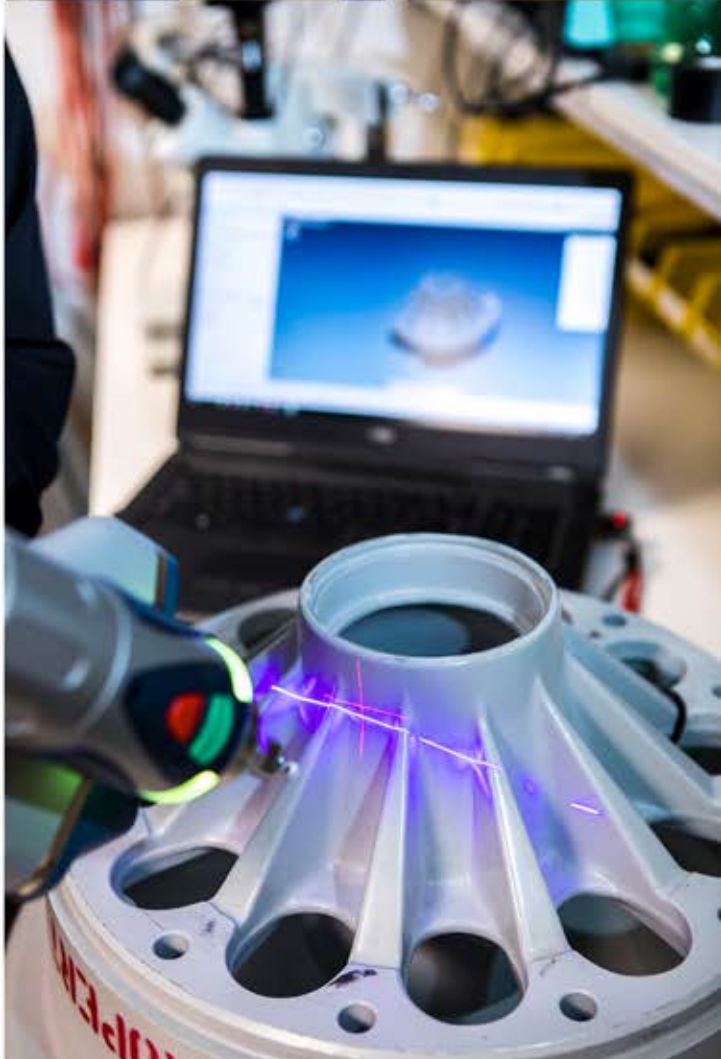
⬧ Functional Reverse Engineering

Analyze analog and digital circuitry, printed circuit boards, and related hardware to determine the functional operation of electronics and re-create using updated components and equipment.

⬧ Avionics Upgrade

Performing VDHL firmware upgrades and maintaining certification standards and re-certification.

⬧ Space Reduction

Re-design for smaller footprint components, smaller packaging, and lighter weight while maintaining heat transfer and power dissipation.