



KURTEK

CURATED TECHNOLOGIES

ADVANCING TECHNOLOGY ♦ ADVANCING HUMANITY

INTEGRATED SYSTEMS MECHANICAL ENGINEERING

KEY CAPABILITIES

Design and Modeling ♦ CAD Modeling and Visualization ♦ Structural Analysis and Simulation ♦ Design for Manufacturing (DFM) ♦ Design for Assembly (DFA) ♦ Manufacturing Drawings and Schematics

Assembly and Integration ♦ Structural Assembly and Component Mounting ♦ Custom Cabling and Harness Assembly ♦ Environmental Sealing and Coating ♦ Casing and Packaging

Integrating specialized elements into a system requires customized, purpose-built structural components, assemblies, and harnesses. Kurtek provides a comprehensive range of mechanical engineering services that combines proven design and modeling expertise with hands-on system assembly and integration experience to reduce prototyping and production timelines, support mission-unique requirements and restrictions, and ensure compatibility with form factor specifications and manufacturing constraints.

Kurtek engineers are experienced with planning and implementing the full mechanical engineering lifecycle, including design and modeling, initial prototyping and design validation, and full-scale production and manufacturing. Our team has utilized multiple computer-aided design (CAD) packages, such as SolidWorks and AutoCAD, to develop direct and parametric 3D models for integrated structures, enclosures and harnesses, and individual components, and have generated drawings and schematics to enable in-house and outsourced manufacturing, assembly, and packaging of custom-designed components and systems.

Working with Kurtek gives you access to a proven combination of experience and expertise from across the global space industry. Our engineers have designed numerous flight and ground systems, and their comprehensive knowledge, broad mission experience, and specialized skillsets enable us to deliver an effective solution for your unique needs.

REPRESENTATIVE PROGRAMS

- Designed structures and harnesses to integrate multiple commercial off-the-shelf and custom-built components into transportable satellite communications terminals.
- Designed and built portable, commercial carry-on compatible test sets for ground system performance validation at remote antenna sites.

To learn more about our capabilities, email us at info@kurtek.io or call our team at **703-943-7236**.