

## LAUNCH VEHICLE TRANSPORTER ERECTOR DESIGN AND ANALYSIS

## **APPROACH**

- Assembled dedicated team of five structural analysts as an extension of client's team
- Delivered detailed strength analysis reports and complete FEMs
- Prepared presentation-ready CDR slide decks in client's format

## **RESULTS**

- Airborne components
  - > Performed quasi-static strength analysis and normal modes evaluation of avionics brackets and installation fasteners
- GSE—mobile launch platform
  - > Analyzed mast, base structure, and decoupler booms that support umbilical harnesses for loads from wind, vibration, and gravity
- GSE—transportation and handling
  - > Analyzed transport and hoist equipment

## **KEY TOOLS & TECHNOLOGIES**

- Femap with NX Nastran
- ITAR-compliant, cloud-based, high-performance computing (HPC)
- Mathcad
- Excel