Mountford Consulting Services
www.mcsengineers.com

Engineering Services Fact Sheet

MCS has over 25 years of engineering design experience in the transportation and aerospace industries. Engineering Services provided by MCS are outlined below.

Engineering Services:

- Engineering Drawings:
  - Review Drawings for Dimensional and BOM Accuracy.
  - Develop and/or review drawings for fabrication, assembly, and installation of mechanical assemblies, including:
    - Manufacturability,
    - Tolerance Analysis,
    - Material Selection,
    - Finish Requirements.
- Review Mechanical Stress and Deflection Analysis for compliance with design criteria.
- Engineering Specifications:
  - Develop and/or review engineering specifications for fabrication, assembly, and installation of mechanical assemblies.
- Test Planning:
  - Develop and/or review engineering test plans for fabrication, assembly, and installation of mechanical assemblies, including:
    - Overall Test Plan/Strategy (i.e. factory acceptance, installation verification, site acceptance, integration, and final acceptance test phases),
    - Test Procedures, Data Collection Sheets, and Test Reports.
- Proposal and Presentation Support:
  - Develop text, figures, and drawings for use in proposals.
  - Develop/conduct/review engineering design presentations.

Project/Engineering Management Services:

- Design Process and Project Management:
  - Direct activities of design staff according to project requirements.
  - Prepare project status reports and prepare, conduct, and review project presentations.
- Engineering Input to Project Schedule Development:
  - Project activity sequence using predecessor/successor logic.

Site Installation Services:

- Review On-site Activities and Progress:
  - Verify Fabrication/Installation/Construction/Installation is in accordance with design.
  - Troubleshoot Problems because of Field Conditions.

Design/Drafting Services:

- Create Fabrication/Construction/Installation/Electrical Packaging Drawings/BOM:
  - AutoCAD

MCS

Contact: David K. Mountford, Principal
3740 NW 39th Place, Gainesville, FL 32606 • 407.808.6848 • david@mcsengineers.com