

Tim Redling

MECHANICAL ENGINEER

Mount Laurel, NJ - Email me on Indeed: [indeed.com/r/Tim-Redling/5425e2ec209036b2](https://www.indeed.com/r/Tim-Redling/5425e2ec209036b2)

Authorized to work in the US for any employer

WORK EXPERIENCE

MECHANICAL ENGINEER

Lockheed Martin Space Systems Company (via Aerotek Feb 2009 - Feb 2011, direct Feb 2011 - July 2015)

- Newtown, PA - February 2009 to July 2015

Electronics Packaging Engineer responsible for the mechanical development, design and manufacturing-follow support of high-reliability, space-qualified hardware including PWBs, CCAs and next-higher integrated assemblies while working in a fast-paced, cross-disciplinary, team-oriented environment

- Lead Packaging Engineer for all Avionics hardware from the Newtown facility on government and commercial programs
 - o Supported the design and build of engineering development, qualification and flight hardware, both in-house and subcontracted, to successfully meet all company and customer milestones
 - o All flight hardware was provided on-time for spacecraft integration
 - o Incorporated design changes based on lessons learned from previously built hardware in order to reduce future defects and reduce cycle time
- Performed mechanical analyses including venting, solder fatigue, CTE compatibility and tolerance analyses in order to ensure mechanical integrity of designs
- Generated inputs for, and worked concurrently with, mechanical and electrical drafters to verify form, fit and function of designs and create accurate design documentation
- Coordinated with SMEs across all disciplines including thermal, stress/dynamics, reliability, EMI, survivability, quality and manufacturing to ensure both compliance to all requirements and the ability of designs to be produced
- Provided real-time floor support for hardware being built in-house, as well as timely responses and support to vendors for hardware built off-site, enabling quick resolutions to mechanical issues and minimizing impact to program schedules
 - o Provided technical rationale for acceptance of defects as-is, as well as repair/rework instructions for defects that needed to be fixed, as necessary
- Designed and detailed basic fixtures to aid in manufacturing and testing of assemblies
- Created and issued design documentation, parts lists and engineering changes in both PDM and EPDM systems

ADDITIONAL SKILLS

- Microsoft Office
- Public Speaking and Presentation Skills

EDUCATION

Bachelor of Science in Mechanical Engineering

Lehigh University - Bethlehem, PA

May 2008