



*Continuously Pushing the Limits of Innovation, Technology and Conventional Thinking*

## Solutions Delivered

- Developed “**Event Based Maintenance**,” a revolutionary maintenance concept using optimization techniques to minimize cost and maximize asset availability.
- Implemented a comprehensive **Reliability Program** for a major Unmanned Aerial Vehicle Original Equipment Manufacturer.
- Performed a complete RCM analysis for **AH-1Z and UH-1Y aircraft**. The analysis effort included **Reliability Block Diagrams** to predict logistics impact of maintenance changes and integration with the Logistics Support Analysis.
- Developed a **Modeling and Simulation** process and tool to predict logistics resource requirements utilizing inputs from RCM and maintenance task analysis.
- Developed and delivered a comprehensive Design Interface/Maintenance Planning **training program**.
- Developed and delivered a complete RCM training program for military and commercial applications.
- Performed simultaneous RCM analyses for several aircraft Type/Model/Series to validate RESET Programs.
- Developed a **Condition Based Maintenance** program for underground mining equipment that included RCM analysis and on-board systems to monitor equipment health.
- Implemented a **web-based telematics system** for utility trucks providing location and vehicle health, status, and diagnostics.
- Supported logistics management of a **Technology Development/Competitive Prototyping** acquisition program for the development of a new ACAT I Laser/Missile Warning System for six Navy/Marine Corps Assault Platforms.
- Participated in the **development of internationally recognize standards** including JA1011, Evaluation Criteria for Reliability-Centered Maintenance (RCM) Processes and GEIA-STD-0007.



*RCM and Condition Based Maintenance systems provide maximum up-time for critical assets in challenging environments.*



*Reliability program supports UAV mission success.*



*AH-1Z Supportability optimized through maintenance modeling and simulation.*

**Andromeda Systems Incorporated** provides tools and services to **Program Managers** and **Fleet Owners** to gain critical insights and system improvements to optimize operations, make better business decisions and achieve measurable cost savings. These benefits are provided through four **integrated** service areas: **Engineering, Maintenance & Logistics, Information Technology** and **Program Management & Acquisition Support**.

### Andromeda Systems Incorporated

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Maintenance & Logistics

# Maintenance & Logistics

**Andromeda Systems Incorporated** provides unparalleled expertise and capability in the Maintenance and Logistics field. We leverage our experience in military and commercial sectors to provide innovative and cost effective logistics and maintenance solutions. Our staff includes nationally and internationally recognized industry leaders who are shaping the industry and developing revolutionary solutions. We have developed state-of-the-art maintenance and logistics analysis tools proven to improve supportability and reduce cost.

## Capabilities

### Condition-Based Maintenance & Prognostics Systems

- Architecture Development
- Diagnostics and Prognostics Algorithm Development
- Maintenance Management Systems Integration
- Systems Development to Collect and Analyze Equipment Health Data

### FMEA / FMECA

- FMEA Software Development and Implementation
- New and In-Service Equipment
- RCM Integration and Maintenance Planning Processes
- Training and Consulting

### Maintenance Concept Development

- Advanced Maintenance Schedule and Performance Optimization
- Event-Based Maintenance Concept
- Integrated Maintenance Concept
- Performance-Based Logistics Support

### Maintenance Management System Configuration & Integration

- Analysis and Scheduling Tool Integration with Maintenance Management Systems
- Maintenance Scheduling Systems Development
- System Configuration

### Maintenance Planning & Logistics Support Analysis (LSA)

- Modeling and Simulation
- Resource Requirements Prediction
- Support Resources Identification and Analysis
- Complex Systems or Fleets
- Tool and Software Development
- Military and Commercial Assets
- Training and Consulting

### Level of Repair Analysis (LORA)

- Analysis
- Cost model and Algorithm Development
- Software Development

### Reliability-Centered Maintenance (RCM)

- Integration: Logistics, Maintenance Data and CBM Systems
- Preventive Maintenance Plan Development for
  - Aircraft
  - Data Centers
  - Ground Vehicles
  - Industrial and Manufacturing Equipment
  - Power Plants
- Software Development and Implementation
- Training and Consulting

### Technical Data

- CAD and Modeling Programs
- Data Development
- Design Change Documentation
- Level 3 Engineering Drawings
- Procedure Development for Maintenance, Troubleshooting and Repair

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