

Patrick S. Thompson  
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Innovative with a comprehensive background in mechanical, electro-optical, and vacuum.  
Adept in simplifying complicated systems. Specialties include: miniature fabrication techniques  
attention to detail, and synergistic methods.

N-Science/Equinox, Senior R & D Engineer 2002 - Present  
R & D Fabrication for Proof-of-concept Instruments and Devices:  
MICA (an X-ray Analytical Instrument), ALTR, Mag Torq,

Lockheed Martin Astronautics, Senior Research Engineer 1996 - 2002  
Created tooling for modification and repair of monolithic hybrid electronics,  
Collaborated on instrument concepts & prepared models for NASA requested proposals,  
Fabrication & drawing revision information for ground support equipment for ACIS,  
(a part of the Chandra X-Ray Observatory)

Martin Marietta Civil Space and Communication, Associate to Senior Engineer 1980 - 1996  
Designed and fabricated the Biological Life Support Test Bed, (a test hydroponics unit)  
Fabricated test tooling for Lamps flown on Cassini / Huygens Probe  
Designed and fabricated validation and test equipment for instruments and proposals  
Devised and fabricated a hazardous chemical handling system, flown on Space Shuttle  
Devised collection methods for Comet Dust

Additional Experience < 1980:  
Quantic Industries; Prototype Technician advancing to Laboratory Supervisor  
Royco Instruments; Calibration / Optical Alignment Technician  
Ultra-Sort Corporation; Electro-Optical Technician

#### Awards and Publications:

“Additional Studies of Comet Dust Collection Techniques”, NASW-3656  
NASA New Technology Award: - Filled Teflon Tape Collector  
Metal Foil Accordion Collector

LMA Idea Awards: Metallic Bonding / Hermetically Sealing at Room Temperature  
Porous Wheel Dispenser Mechanism \*  
Dust Detection using Piezoelectric Transducer \* shared with M. Thornton  
Rapid Deployment Radiation Shelter \*\* shared with Dr. B. Clark

#### Education:

A.A. Electronics Technology; Butte Jr. College, CA

#### Additional courses:

Shasta Jr. College, & College of the Redwoods, CA