Matthew Thompson

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Education

Massachusetts Institute of Technology, Cambridge, MA Candidate for June 2010
Sloan School of Management and School of Engineering
Master of Science in Engineering and Management, System Design and Management Fellow

University of Washington, Seattle, WA 2001
Bachelor of Science in Mechanical Engineering, specialty in Thermodynamics and Energy

Experience

Beckman Coulter, Inc., Miami, FL
Senior Mechanical Engineer 2006 - 2008

- Worked as primary mechanical engineer on team to develop new flow cytometry analyzer: Designed cooling architecture for system, sized fans and ensured proper thermal management.
- Led environmental testing, validated prototype temperature control for optical assembly of analyzer.
- Redesigned plastic injection molded covers (skins) for final production analyzer; increased performance and reduced complexity.
- Started Engineering Forum, a company-wide discussion group for engineers to share experiences.

Lockheed Martin MS2 (Maritime Sensors and Systems), Riviera Beach, FL
Mechanical Engineer 2004 - 2006

- Led team that designed maintenance support equipment for DOD underwater vehicle. Worked with customer to develop requirements, design concepts, and solutions.
- Optimized propeller design for an autonomous underwater vehicle (AUV).
- Performed system-level static and dynamic analyses for performance validation and requirements verification for large remotely operated vehicle (ROV).
- Used simulation tools (MatLab, Simulink, and C++) that identified performance deficiencies.

Lockheed Martin Space Systems Company, Sunnyvale, CA
Mechanical Engineer 2001 - 2004

- Designed, built, and delivered precision optical servomechanisms as contributing team member. Supported designs through all phases of review (PDR, CDR, TRR).
- Analyzed, designed, drafted, procured and tested various components of mechanical mechanisms.
- Designed mechanical components using solid modeling and CAD software. Analyzed kinematics and dynamics using MatLab and Simulink.
- Worked with consultants and suppliers to design and procure electromechanical actuators. Conducted experiments to verify actuator performance after manufacture.
- Defined customer requirements and developed initial design of future mechanisms.
- Used geometric dimensioning and tolerancing (GD&T) in complex engineering drawings.

Siemens Medical Solutions, Inc., Issaquah, WA
Mechanical Engineer Intern 1999 - 2001

U.S. Government Security Clearance: Inactive TS/SCI based on a SSBI