

EXPERIENCE**BRG MACHINERY CONSULTING, LLC**, Charlottesville, VA*Machinery Specialist, January 2007 - Present*

Contribute machinery expertise for all classes of rotating equipment. Duties include developing specifications, performing design audits and purchasing of machinery for chemical and refinery plants. Support clients with machinery shop performance, mechanical and auxiliary testing, in addition to troubleshooting existing equipment. Provide technical support and training for maintenance and operating personnel.

ROTATING MACHINERY TECHNOLOGY, Inc, Wellsville, NY*President, February 2002 – January 2007*

RMT is a \$6M revenue company that manufactures precision bearings and seals, remanufactures turbomachinery, offers field services, and performs engineering consulting.

- Doubled sales through aggressive marketing, pricing and operational improvements
- Improved profitability through careful financial planning, budgeting, and goal setting.
- Strengthened the organizational structure by appointing strong leaders and delegating authority
- Turned RMT into a process driven organization through ISO 9000 certification and the implementation of lean
- Developed new bearing designs and improved bearing manufacturing techniques
- Improved repair and balance methods for compressors, turbines, gearboxes, and cryogenic turbo expanders
- Negotiated the legal and financial aspects of divesting a \$2M portion of the company
- Negotiated contractual pricing, terms, and conditions for hardware and services on numerous projects

PRATT AND WHITNEY, East Hartford, CT*Program manager FT8-3 industrial gas turbines, August 2001 - February 2002*

Successfully led a \$15M FT8-3 Industrial Gas Turbine Development program.

- Program management: Managed all program related activities including manpower, schedule, budget, performance, cost, and risk.
- Leadership: Set goals, selected personnel, organized tasks, determined actions, assigned owners, focused on results, persuaded, collaborated, influenced, encouraged, and rewarded.
- Communications: Improved coordination and communication among module center managers.

Technical leader, rotor dynamics, September 1998 - August 2001

Successfully led a team of engineers in the structural design of several new gas turbine engines.

- Team Leadership: Built a cooperative, team driven engineering organization focused on results.
- Communications: Improved coordination and communication among multi-disciplined project teams.
- Collaboration and Teamwork: Encouraged broad ownership of projects and tasks with a proactive approach. Project management: Organized and assigned tasks, developed manpower plans and schedules.
- Coaching: Mentored new employees to become active team members.
- Problem solving: Created high quality, root cause based solutions to several major engine problems.

UNITED TECHNOLOGIES CARRIER, East Syracuse, NY*Senior Engineer, Centrifugal compressors, August 1990 – December 1996*

Responsible for design of new centrifugal compressors from 250 to 2000 horsepower.

- Team Leadership: Led a multi-disciplined project team in the design of several new compressors.
- Project management: Developed schedules, staffing requirements, and budgets to meet project goals.

- Design Integration: Established a design framework to meet product design and reliability requirements based on design for manufacturing methods. Worked closely with suppliers to improve quality and reduce cost.
- Program management: Coordinated design efforts between suppliers, manufacturing and drafting.
- Technical skills: Designed rotating systems including hydrodynamic bearings, shafts, and helical gears. Performed rotor dynamic, structural, and vibration analyses.

EDUCATION

CARNEGIE MELLON UNIVERSITY, Pittsburgh, PA

Graduate School of Industrial Administration, MBA January 2002

Concentrations in Marketing, Finance, and Business Law

UNIVERSITY OF VIRGINIA, Charlottesville, VA

Master of Science, Mechanical Engineering, December 1999

Thesis topic: Optimal Design of Fluid Film Bearings

SYRACUSE UNIVERSITY, Syracuse, NY

Bachelor of Science, Mechanical Engineering, May 1992

CONFERENCE PAPERS

“Fundamentals of Fluid Film Journal Bearing Operation and Modeling,” *34th Turbomachinery Symposium*, Texas A&M University, Houston, Texas, December 2005, with M He and C.H. Cloud.

“Journal Bearing Vibration and SSV Hash,” *37th Turbomachinery Symposium*, Texas A&M University, Houston, Texas, September 2008, with SM Decamillo, CH Cloud and M He.

“Low Frequency Shaft Vibration Tests and Analyses,” *7th EDF/LMS Workshop: Operational Limits of Bearings*, Electricité de France Company and Université de Poitiers, October 2008, with SM Decamillo, CH Cloud and M He.