

EXPERIENCE

BRG MACHINERY CONSULTING, LLC, Charlottesville, VA

Machinery Specialist, 2003 - 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.

MOBIL TECHNOLOGY COMPANY, Princeton, NJ

Rotating Equipment Specialist, January 1971 - January 1994

Provided machinery expertise to Mobil affiliates worldwide. Assisted operating plants in all facets of machinery design from specifications and bid evaluations to testing, commissioning and installation. For new plants and facilities, responsible for all machinery, including compressors, pumps, steam turbines, gas turbines, gearboxes, and reciprocating compressors. Served as lead specialist for the following grass roots projects, among others:

- Arun LNG Facility, Indonesia (6 trains)
- Paulsboro Refinery FCC Unit, Paulsboro, NJ
- Torrance Refinery Hydrotreater, Torrance, CA
- ARAMCHEM Yanbu MTBE Plant, Saudi Arabia
- Jurong Refinery Hydrotreater, Singapore
- Jetta Lube Oil Plant, Saudi Arabia

AIR REDUCTION COMPANY, Murray Hill, NJ

Rotating Equipment Specialist, January 1967 - December 1971

Contributed machinery expertise for tonnage oxygen and air separation plants. Duties included developing specifications for compressors, expanders, cryogenic pumps and associated cryogenic equipment. Witnessed performance testing of air, nitrogen and oxygen compressors, cryogenic pumps and associated equipment.

Major projects included:

- 1000 Ton Oxygen Plant, Arroyo, WV
- Bethlehem 1000 Ton Oxygen Plant, Bethlehem, PA.
- 10 N₂ Package Nitrogen Plants, Johnstown, PA.

AMERICAN CYANAMID COMPANY, Wayne, NJ

Mechanical Engineer, January 1957 - December 1967

Provided mechanical engineering duties for chemical and petrochemical plants. Responsibilities included performing piping stress analysis for critical piping systems, initiating equipment specifications for waste heat boilers, pumps, compressor and auxiliaries including installation and commissioning. Major projects included:

- 1000 Ton Ammonia Plant, Fortier, LA. (Steam Turbine Driven Equipment)
- 1000 Ton Ammonia Plant, Welland, Ontario (Motor Driven Equipment)
- Creslan Synthetic Fiber Plant, Pensacola, Fla.
- Ammonia Nitrate & Urea Plants, Welland, Ontario & Hannibal, MO.
- Toluene Waste Heat Boiler, Wallingford, Conn.
- Melamine Project, Wallingford, Conn.

M. W. KELLOGG COMPANY, New York, NY

Piping Design and Stress Analyst, September 1951 - January 1957

Responsible for the plant design of refineries and chemical plants. Duties included piping design and layout of equipment and utilities. Assigned to pipe support analyst group to perform stress analysis of critical equipment using the Spielvogel Method and Kellogg Analytical Method. Major projects included:

- SASOL Project, Johannesburg, South Africa
- AMOCO Refinery, Yorktown, VA.

EDUCATION

FAIRLEIGH DICKINSON UNIVERSITY, Teaneck, NJ

Bachelor of Science, Mechanical Engineering, January 1968

PROFESSIONAL ACTIVITIES

Retired Member, American Society of Mechanical Engineers
Professional Engineer, State of New Jersey