

Savannah GA 31405

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Lead Mechanical Engineer, Apr-2018 to Aug-2022; Johnson Matthey

- Managed design of natural gas processing product
- Developed novel metal-forming processes
- Supervised team of engineers & designers
- Supported Stackable Structural Reactor (steam-methane reforming) product line

Motor Design Engineer, Jul-2012 to Apr-2018; Ametek

- Managed mechanical/electrical designs of DC motors (<5 hp)
- Engineered & supported hydraulic life test facility
- Supported high-volume (overseas) motor production

Senior Engineer, Sep-2006 to Jun-2012; Catacel Corp. (now Johnson Matthey)

- Managed three research grant programs simultaneously
- Led team to design, build, test & document foil-based heat exchanger
- Performed fluids and thermal analysis on heat exchangers & reactors

Project Engineer, Mechanical, Apr-1998 to Sep-2006; Goodrich Corp. (now Safran)

- Led team to design new high-speed 500A brushless generator
- Relocated to France temporarily in support of new customer
- Developed starter-generator for extended overhaul period (1200 hr)

Product Development Supervisor, May-1991 to Apr-1998; Engelhard (now BASF)

- Invented & implemented first process for skew corrugating metal foils
- Led product development of EHC's and small engine catalysts
- Established & managed hot vibration durability test facility

Research Engineer, Feb-1989 to May-1991; Univ. of Texas Center for Electromechanics

- Designed, built & operated 1.1 M lbf hydraulic press for fusion program
- Designed & tested cryogenic cooling system
- Performed mechanical, thermal & magnetic FEA on rotating equipment

Design Engineer, Jun-1987 to Feb-1989; Sunpower, Inc. (now Ametek)

- Designed, built & tested novel rotating/oscillating induction motor
- Incorporated sodium-filled heat pipes for NASA free piston Stirling engine
- Redesigned diesel burner for improved temperature distribution

Education & Registration-

MSE 1995, Case Western Reserve University

BSME 1987 (with highest honors), University of Texas

Registered professional engineer (Ohio #56335)

Analysis skills-

Mechanical, thermal, pneumatic, dynamic, FEA; have worked with AutoCAD, Excel, Word, SDRC Ideas, Solidworks

Publication & patents- Multiple technical papers, posters & US patents on catalyst construction, corrugating, rotating equipment, instruments & heat exchangers.