

Ray Cockerham, PMP

9180 Grand Lake Estates Drive • Montgomery, Texas 77316 • (832) 493-0619

raycockerham1@aol.com

Linkedin Profile - <https://www.linkedin.com/in/ray-cockerham-b8813a15>

ENGINEERING AND FABRICATION PROFESSIONAL

Complex Mechanical, Hydraulic, Pneumatic, Magnetic & Electrical Products

Mechanical Engineer with twenty seven years of product design, prototype, testing, manufacturing, assembly and quality control experience. Listed inventor on sixteen active US patents and forty-nine total patent filings. Materials expertise in a broad range of metals and plastics. Manufacturing process expertise in machining, forming, casting, welding, injection molding, and many more. Fixture, jig and inspection gauge design expertise. Recognized for the ability to discover root issues, sell ideas and bring innovative solutions to market. Proficient in a wide range of engineering software applications and certified as a Project Management Professional. Core competencies include:

- New Product Design & Development
- Plant Layouts
- Material Selection
- Industry Regulation Compliance
- Root Cause Analysis
- Heavy Equipment Installation
- Lean Manufacturing
- Design for Manufacturing and Assembly
- Team Building & Team Leadership
- Continuous Improvement
- Customer and Sales Support
- Project Management
- Vendor Sourcing/Negotiations
- Manufacturing Planning

PROFESSIONAL EXPERIENCE

ENGINEERING SERVICE PROVIDER, Montgomery, Texas 2016 –Present
Product Engineering services include 3D models, 2D drawings and plant layouts in ProEngineer, SolidWorks or Autocad. Engineering documentation management, regulation consultation and stress analysis. Customers include OEM machine manufacturers, plastic and metal fabricators. Industries served include waste-energy, recycle and coal-fired power plants.

ACCENT WIRE-TIE, Tomball Texas 2009 –2016

Manufacturing and Engineering Manager

Responsible for engineering a spectrum of PLC controlled industrial machinery for global markets in the waste-energy and recycle industry compliant to global regulations and standards. Responsible for complete mechanical, electrical and hydraulic design with assembly and inspection fixtures, instructions and operational manual. Responsible for plant layouts on customer-centric custom equipment designs.

- Developed order entry, manufacturing and quality control, processes which enabled continuous improvement of equipment design, manufacturing processes, employee training, and communications.
- Project Manager involving Field Service/Install, Customer Co-development, offshore re-sourcing, software/hardware development and machine customization for new markets.
- Managed department consisting of order entry, designers, procurement, quality control, part sales and assembly/fabrication /welding personnel.

PROFESSIONAL EXPERIENCE (Continued)**GREENE TWEED & CO**, Houston, Texas

2006 – 2009

Engineering Team Leader

Developed high temperature, high pressure electrical connectors, sensors, antennas and sealing solutions used in downhole applications.

- Developed Halliburton's OMRI pad, an encapsulated sensor which enables high resolution digital wellbore images in oil-based muds. The accomplishment enabled this strategic customer to create a new market of logging tools and enabled Greene Tweed to establish an encapsulation market.

TELEFLEX, INC., Willis, Texas

2001 – 2006

Capro, a wholly owned subsidiary**Product Development Specialist/Engineering Supervisor/Engineering Team Leader.**

Developed highly complex mechanical and electromechanical cable assemblies for a diverse spectrum of automotive applications.

- Led cross-functional design and manufacturing team in the conceptualization, design, engineering, launch and patent of an automotive electromechanical actuator. This actuator was Capro's first electric product. It has remained a standard seat actuator for over a decade with total production volumes exceeding 10 million.
- Managed Product Engineering responsibilities on an acquisition team. Resulted in an expedient procurement and transfer of a cable manufacturing company located in the Czech Republic to a factory located in Hungary.

BRUNSWICK CORPORATION, Tulsa, Oklahoma

1995 – 2001

Zebco, a wholly owned subsidiary**Project Coordinator/Advanced Concept Engineer/Senior Design Engineer.**

Promoted through increasingly responsible R&D leadership roles during the development of the company's high-end fishing reels.

- Managed cross-functional teams to accomplish engineering design, laboratory and field testing, scheduling, costing, and vendor relations. Collaborated with manufacturing teams in Korea and Japan.
- Utilized in-house 3D printer to demonstrate feasibility of new concepts, functionality of new mechanisms and ergonomics of new fishing reels.
- Invented an ACS (externally adjustable centrifugal backlash control) mechanism that was recognized as the most valuable invention of the year and a significant advancement to the company's product portfolio. This premier feature has remained pivotal to the success of the company's line of high end baitcast reels for almost 20 years.
- Secured numerous US and foreign patents for technology innovations and new product introductions earning multiple innovation awards, positioning the company as a prominent leader within the fishing reel industry.

PROFESSIONAL EXPERIENCE (Continued)

WHITE CONSOLIDATED INDUSTRIES, Shreveport, Louisiana 1989 – 1995
Poulan/Weed Eater, a wholly owned subsidiary

Senior Design Engineer/Design Engineer.

Recruited from college as a design engineer and quickly promoted to manage multiple product design projects, from conceptualization and design through production and launch.

- Led the design of a new series of electric line trimmers which resolved a major quality issue, earning a US patent and the company's Oscar Award for outstanding performance.
- Responsible for the design of electric and battery operated lawn and tree care products including blowers, hedge trimmers, edgers, and chainsaws.
- Contributed to the design and development of gas powered products through design reviews, product testing reviews.

EDUCATION & SPECIALIZED TRAINING

Oklahoma State University, Stillwater, Oklahoma
Graduate Studies in Geotechnical Engineering

Louisiana Tech University, Ruston, Louisiana
BS, Mechanical Engineering 1989

Certified Project Management Professional (PMP), PMI #1977001
Registered Professional Engineer (PE), Oklahoma 19987 (inactive)

Six Sigma • Statistical Analysis • Reliability Testing & Prediction
Metallurgy • Gear Design • PMP • Lean Manufacturing
MS Office • Project • AutoCAD 2D • Pro-Engineer • SolidWorks • Catia • Pro-Mechanica
ANSYS • Finite Element Analysis • Team Building & Management