

Blaine LaFleur, P.E

Partner

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337.351.4731

EDUCATION

- BS, Mechanical Engineering, 2008 – University of Louisiana at Lafayette

CERTIFICATIONS/REGISTRATIONS

- Louisiana State Board of Professional Engineers and Land Surveyors, Professional Engineer in Mechanical Engineering, LA #0037776

EXPERIENCE

StoneWall, 2015 - Present

- Owner and Principal Engineer
- Lead engineer and project manager of multi-faceted projects for diverse industries and clients
- Manage 15 employees, including 6 Professional Engineers, in multiple engineering disciplines (Mechanical, Civil, Electrical, Structural)
- R&D design work of equipment servicing energy, food, and medical industries
- IP engineer for new innovative tools and products
- Expert in designing and achieving patentable tools
- Expert witness for multiple patent litigation cases
- Compliance assurance to CE/ATEX, DNV Drill Spec, and multiple API Standards

WMD Squared, 2010 – 2015

- Partner and Chief Design Engineer
- Managed over 20 employees including 5 Professional Engineers and 12 junior engineers and designers
- Increased revenue from 300,000 to 3.7 million in 4 years
- Industries served include oil & gas, petrochemical, consumer market, medical, and marine

Frank's Casing, 2008 – 2010

- Design Project Leader
- Applied engineering principles to real world problems as well as designed, tested, fabricated, and assembled new oilfield tools
- Developed pipe and casing handling equipment to meet new deep water drilling demands
- Supervised drafting, manufacturing, and production phases of projects

PATENTS

Tubular Guiding and Gripping Apparatus and Method

Patent date Issued Feb 10, 2015 Patent issuer and number US 8,950,475 B2

Patent description: A method and an apparatus to guide a tubular member include the apparatus having a bore with a longitudinal axis extending therethrough and configured to support the tubular member, with the apparatus including a first opening formed at a first side thereof, a second opening formed at a second side thereof, and an inner wall extending from the first opening to the second opening. The apparatus further includes a first guiding member disposed adjacent to the first opening of the bowl and a second guiding member disposed adjacent to the second opening of the bowl.

Training Aid for a Batter

Patent date Issued Jul 23, 2013 Patent issuer and number US 8491423

Patent description: A training aid for a batter, which can include a barrel, a handle, and a connection assembly, wherein the connection assembly can be configured to allow the barrel to pivot to form an angle of one hundred eighty degrees between the barrel and the handle when a batter uses proper swing mechanics. The connection assembly can be configured to allow the barrel to pivot to form an angle different than one hundred eighty degrees between the barrel and the handle when a batter swings with improper swing mechanics, such as a "flying lead elbow", "casting", a "wrap swing", a "hitch", or "barring out".

Tubular Guiding and Gripping Apparatus and Method

Patent date Issued Nov 27, 2012 Patent issuer and number US 8316929

Patent description: A method and an apparatus to guide a tubular member include the apparatus having a bore with a longitudinal axis extending therethrough and configured to support the tubular member, with the apparatus including a first opening formed at a first side thereof, a second opening formed at a second side thereof, and an inner wall extending from the first opening to the second opening. The apparatus further includes a first guiding member disposed adjacent to the first opening of the bowl and a second guiding member disposed adjacent to the second opening of the bowl.

PROJECTS (Limited High-level List)

Greenfield Energy Services - Principal Engineer

- Chief of Engineering for company
- Lead and managed all engineering activities
- Designed, engineered, and manufactured Turbine Driven Frac Units. As well as all associated equipment

TPT Power Generation - Principal Engineer

- Chief of Engineering for company
- Lead and managed all engineering activities
- Designed, engineered, and manufactured Turbine Driven Power Generation Units. As well as all associated equipment

Unique Systems Dive Company - Principal Engineer

- Managed the US\$10.5 million upgrade of Harkand's Gulf of Mexico based dive support vessel (DSV) Swordfish.
- Lead all engineering activities associated with updating an entire saturation dive system
- International Marine Contractors Association (IMCA) compliant, ABS classed, 104m long, DP2 DSV
 - newly upgraded 15-man saturation diving system
 - new three-man bell
 - new 165ft surface diving system

Rotating Solutions - Principal Engineer

- Setup Engineering Department
- Organized systems and process for company efficiencies
- Aligned Sales, Engineering, and Operations departments
- Coordinated multiple projects from the sales phase to produced products

CONOCO Phillips/BOS - Principal Engineer

- Led Root Cause Analysis for centrifuge failure
- Provided failure source and engineered plan to mitigate future failures

12:eleven Production Equipment - Principal Engineer

- Manage all engineering duties for the company
- Design and engineering all production equipment
- Organized systems and process for company efficiencies
- Coordinated multiple projects from the sales phase to produced products

Haliburton Inflowtech Tool - Principal Engineer

- Designed and Engineered a downhole tool to prevent future blowouts like the one that happened on Macondo
- Negative Draw down pressure test tool that needed to handle pressures and tensile ratings Haliburton had never designed for

Wright Group - Principal Engineer

- Lead all Engineering and Maintenance projects associated with company
- Increased capacity and brought up to industry standards

Billy's Boudin - Principal Engineer

- Helped scale business to handle 10x production
- Optimized production facility
- Designed and Engineered new equipment to handle new workload

Fortress Downhole Tool - Principal Engineer

- Designed new downhole tools to enable business to thrive in their market
- Used patent experience to get around multiple patents and enable Fortress to compete in a heavily patented market

Enerplus - Colorado Gathering Facility – Phase 1 – Principal Engineer

- Optimized for a capital phased approach
 - Sized and planned for additional equipment

OXY/NXT GAS Solutions - Principal Engineer

- Project Managed for NXT - corresponded between Air Liquid, OXY, and vendors from inception to completion
- Completed project in 3 months with limited resources while running dual teams to complete EOG H2S System
- Design system in accordance with OXY and Air Liquide Specifications

Arizona Turbine Technologies - Turbine PowerGen - Principal Engineer

- TF40 & TF50 Turbine
- Design .5MW, 1.5MW, 3MW Systems
- High-Speed Gearbox direct drive
- Air intake/exhaust & Cooling system design
- Trailer mounted package

ENTI Natural Gas Turbine Frac Units - Principal Engineer

- Truck-mounted
- TF40 Turbine support systems
- Multi-Speed Gearbox
- Frac Pumping system

Rainmaker - Water purifier – Principal Engineer

- Investigate high speed rotating machinery for marketability
- CFD to determine if increased input will result in lower operating costs
- Design and conduct experiments for efficiency optimization

Eco-Technologies - Multi-Purpose "Reactor" – Principal Engineer

- Design high speed rotating machinery reactor
- Optimized design for manufacturability & Maintenance
Cut manufacturing cost from \$250k to \$50k

Expert Witness/Litigation Experience

Civil Action No. 6:15-cv-01855-RFD-CBW Total Rebuild vs PHC Fluid Power

- Provided Expert report on Patent infringement
- Waiting to be deposed and go to trial
- Subject matter is in relation to a testing bay used for testing downhole tools

Petro Pull v. Swivel Rentals

- Provided Expert report on Patent infringement
- Providing Infringement contentions for Patent US 9,650,841 and Patent 9,938,778
- Providing expert advice in depositions and trial

Patent Infringement Case Eaton Oil Tools vs Albrado

- Currently assisting with patent infringement research and putting together an expert report
- Subject matter is in relation to a casing mill design to drill out casing strings

Casing Pile Driving FEA

- Served as expert in the case in regards to performing and interpreting the FEA for a casing that collapsed during the driving operation under the load of a Hydraulic hammer
- Proved that the hammer did not cause the casing to fail and it was the operator
- Performed the necessary FEA test as well as producing the proper report to be presented in court

Willem Mast (WMD Squared) vs TPT/MTT

- Provided all design and engineering data to support WMD Squared in litigation
- Participated in hearings and depositions as an expert in engineering, design, manufacturing prints, and manufacturing of oilfield equipment (specifically equipment used for hydraulic fracturing)

TUCSON EMBEDDED SYS. INC. V. TURBINE POWERED TECH. LLC

- Expert engineer for design, engineering, manufacturing of IP associated with hydraulic fracturing