

EXHIBIT 1

(Expert Resumes)



JOHN T. KRACZEK – MECHANICAL ENGINEER

John Kraczek has more than 30 years of experience in industrial design engineering, Project and Construction Management. He has significant experience in mining and mineral processing, and chemical plant projects both domestically and internationally. He has participated in projects, feasibility studies, and project cost analyses in multiple countries. His equipment design experience includes CNC machine development, robotic welding, automated equipment development, assembly and manufacturing cell set up. He has managed multiple plant installation and construction projects.

PROJECT EXPERIENCE

- **Bozshakol Clay Copper Concentrator Plant** - Kazakhstan » FLSmidth - Senior Mechanical Engineer and Senior Project Engineer on \$330 million project. Oversaw and coordinated mechanical engineering teams and coordinated work between all disciplines including process, civil, structural, electrical, controls, and equipment suppliers, and site contractors in support of the overall project director. Extensive work in sizing, qualifying and deploying many types of equipment and included working with teams integrating equipment into the plant control systems.
- **FMC Plant Upgrades** » FMC - Project Engineer and Manager on multiple projects, process review and engineering cross check, pumps and piping calculations, corrosion studies, construction coordination and inspections, cost estimates and approvals for finance packages, Calciner and rotary kiln rebuild management. Managed Approximately \$20 Million in projects over 2 years.
- **Hunter Plant Drag Chain Conveyor for Unit #3** » UCC – Lead Project Engineer – coordinated multidiscipline effort to support the installation of a new drag chain conveyor for the unit 3 boiler at the Hunter Power Plant for UCC.
- **Huntington Plant Submerged Drag Chain Conveyor** » PacifiCorp - lead mechanical engineer on the installation of a drag conveyor for boiler #2 at the Huntington power plant.
- **Gold Refinery Ventilation** » Johnson Matthey - Performed various ventilation studies, reviewed vendor equipment recommendations, coordinated and reviewed roof load studies and equipment placement, power and gas consumption projection estimates for proposed expansion projects
- **Trona Plant Upgrade** » Tata Chemicals - Coordinated pump and piping calculations, equipment selection, process review and process change recommendations, engineering support for purchasing functions, site inspections and tie in review.
- **Manufacturing Facility Upgrade and Management**» Designed process flow and equipment layouts and managed construction and equipment installation including rigging, electrical installation and tie ins, plumbing, offices, phone systems for 4 different short to medium run manufacturing facilities.
- **Facility Upgrade** » OCI - Selected equipment for client provided process for a facility upgrade, classifier, clarifier, pump and piping calculations, preliminary total installed cost estimate for the upgrade.
- **Green Field Facility** » M.C. Lithium - Selected equipment for client provided process for a green field facility, piping and pump calculations, peeler centrifuge, drier, and agitator calculations and sizing, preliminary total installed cost estimate for the facility.
- **Tasmania Tin and Sapphire Mine** » Van Diem Mines - Ore flow and mining process calculations, equipment sizing and plant design for Tin and Sapphire capture, on site mine inspections, oversaw equipment and plant manufacturing and shipping.
- **Coal Mine Facility Update** » Lila Canyon Coal - Review and update design of mine coal load out, review and update design of surface facilities.
- **Rotary Drier Failure Analysis** » Great Salt Lake Miner - Rotary Drier Failure Analysis and Recommendations, turn around planning.



- **Billet Heater** » SAPA - Engineering calculations on re-engineered billet heater, engineering design of equipment, coordinated manufacturing of equipment, oversaw installation, testing and commissioning of equipment.
- **Renewable Power and Natural Gas Projects** » MAETEC LLC - Development of green field renewable power and natural gas power projects for the Caribbean, South Pacific and South East Asia, engineering and design of offshore renewable energy systems, preliminary environmental impact studies, project feasibility studies.
- **Coal Mine Engineering and Design** » Circle Industries - Coal mine inspection, engineering and design of coal mine man doors, engineering and design of manufacturing equipment for production.
- **Manufacturing Equipment Design and Development** » Integrated Engineering and Design – CNC Automated manufacturing equipment design and program logic development, (56k lines code), oversaw equipment manufacturing, equipment installation and check out, operator and process training.
- **Manufacturing Cell Design** » Boundary Fence and Railing - Oversaw equipment installation, equipment commissioning, and operator training.
- **Manufacturing Equipment Design** » Daymond - Equipment Cell Design, oversaw equipment installation and commissioning, product design and development, technical support and debugging.
- **Manufacturing** » Tensor Polytechnologies - Retail product line development and marketing support, multiple SKUs, manufacturing plant design including material flows, conversion, packaging and warehouse, managed plant and equipment construction and commissioning, trained operators, turn around planning and management for press rebuilds.
- **Equipment Design and Manufacturing** » Goldfield International - Goldfield Engineering – Responsible for development of mine process flow sheets and mechanical equipment selection and sizing, specifying horsepower of motors, call out bearings, chain and belt sizes on motorized equipment, oversaw design and manufacturing and assembly of rotary trammels, jigs, and sluices for ore processing, designed dewatering sand screws, rotary and Trey driers, oversaw the fabrication, construction, and packing for shipment of plants shipping internationally.

EDUCATION & TRAINING

Weber State University

Bachelor of Science in Mechanical Engineering Technology

Post Graduate Studies:

- Project Management
- Accounting
- Team and Business Management

AFFILIATIONS AND LICENSES

Society for the Advancement of Material and Process Engineering (SAMPE)

JOHN T. KRACZEK

EXECUTIVE DIRECTOR AND SENIOR PROJECT ENGINEER

AREAS OF EXPERTISE

Extensive project experience in the U.S., Canada, Caribbean, Australia, South East Asia and The South Pacific.

Expertise in energy projects, material handling, strengths of materials, mechanical process and design, mineral processing, concentrators.

Excellent knowledge of engineering design associated with safe operation of plant equipment and piping systems.

Develop process concept ideas into Process Flow and P&IDs.

Prepare technical data sheets.

Skilled at identifying project tasks, order of priority, and accomplishing turn around projects.

Evaluate vendor bids and drawings to assure design compliance.

Excellent management and interpersonal skills for leading small to large teams.

PERSONAL DETAILS

John Troy Kraczek

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PERSONAL SUMMARY

Johnny Kraczek has more than 30 years of experience in design and industrial engineering, working in energy, chemical, mining and manufacturing projects internationally. He has developed and managed engineering projects in renewable energy, manufacturing, heavy equipment manufacturing, manufacturing automation, plant power, mining process, mining equipment, slurries and ore processing in precious metal, precious gems, potash, trona, and salt mineral recoveries.

PROJECT EXPERIENCE

FLSmidth Salt Lake

Senior Project Engineer

- Coordination of all engineering disciplines with client. Worked directly with conveyor and plant equipment development and procurement, HVAC engineering development, other equipment and engineering support for \$350 million Bozshakol Copper Project in Kazakstan

FMC Greenriver

Senior Project Engineer

- Worked with procurement of contractors to carry out turn around projects.
 - Calciner and rotary kiln rebuild projects
 - Crystallizer Chiller Piping corrosion analysis
 - Steam Sparger and pre-crystallizer heat systems
 - Feed and Heat Balance Analysis and design review
 - Agitator/sweeper drives
 - Vacuum Pumps and steam venturi vacuum systems
 - Crystallizer structural supports
 - Various crystallizer design reviews including Mono, Sesqui, and Decahydrate systems for Sodium Bicarbonate purification and processing
 - Design review and evaluation on Potash Systems
 - Post crystallizer piping systems
- Responsible for \$20 million plus in FMC projects

PSE Sandy

Senior Consulting Engineer

- Plant Design including Lithium Plant, Trona Plant, construction cost estimates and preliminary engineering.
- Power Plant Projects for Hunter, Hunnington and Glendive Power plants.
- Coal handling and processing equipment design and costing for various mines.
- Various mine and smelter projects for Kennecott Copper

JOHN T. KRACZEK

EXECUTIVE DIRECTOR AND SENIOR PROJECT ENGINEER

OTHER AREAS OF EXPERTISE

Process Flow and Design
Inspections and Procurement
Greenfield and Retrofit
 Plant development
Construction Management
Project Management
Heavy Machinery Design
Structural and Mechanical
 Design
Tool Design
Material Handling Including
 Belt and Pneumatic
Conveyors
Placer Separation Equipment
 Including Jigs, Trommels
 Screen Deck and
 Sluice design
HVAC and ventilation
Industrial Motors and site
 power development
Clear Water and Slurry
 pumps
Agitators, Frothers,
 and Clarifiers
Crystallizers
Solar Evaporation

EDUCATION & TRAINING

Weber State University
Bachelor of Science in
 Mechanical Engineering
 Technology
Post Graduate Studies:
 Management of Teams
 Accounting and Project
 Management

Goldfield International-Goldfield Engineering, Lindon Utah

Senior Engineer

- Responsible for the development and manufacturing of placer mining equipment in the world wide market.
- Oversaw design and manufacturing of rotary trommels for ore processing.
- Oversaw design and manufacturing of equipment to receive and meter ore from earth moving equipment.
- Designed dewatering sand screws, rotary and Trey driers to further process ores and precious stones.
- Projects included systems to process up to 300 tons of ore per hour
- Oversaw the design and supported manufacturing for processing complex ore processing systems shipping internationally some systems packaged in as many as forty 40ft shipping containers for one site.
- Three story processing platforms with connecting bridges as well as conveyors, slurry pumps and extensive plant piping systems for both process water and slurries.
- Oversaw the fabrication, construction, and packing for shipment plants shipping internationally.

MAETEC LLC, Sandy Utah

Founder, Lead Researcher and Director of Engineering

- Researched and developed Renewable Energy Projects
- Site visits and negotiations with government ministries and Prime Ministers to determine island power needs and to gather support for renewable energy projects
- Inspection of marine equipment and facilities including shore facilities, tug and other vessel inspections. Interviews with mariners and harbor commandants
- Extensive testing and development work, leading research technicians to develop highly efficient electrolyzers and new international Electrolyzer patents
- Leadership and extensive involvement in the development of two sizes of Offshore Energy Capture and Storage systems, including concept design, PID, PFD development, general part development, FEA parameters for parts, and
- Responsible for specifying horsepower of motors, call out

JOHN T. KRACZEK

EXECUTIVE DIRECTOR AND SENIOR PROJECT ENGINEER

PROFESSIONAL SKILLS

AutoCADD, Inventor
ProE, Solid Works
Microsoft Office
Word, Excel, Outlook, Power
Point, Access
Algore
Caesar II

Taught: Composite
Engineering at SLCC 2 yrs

PERSONAL CHARACTERISTIC

Resourceful
Disciplined
Performs Quality work
Complete work on time
Productive
Organized
Good verbal and written
communication skills
Skilled presenter

OTHER SKILLS

Other useful project skills
include:

-Equipment Inspector
including industrial, energy
and marine equipment
-Certified Diver with open
sea diving experience.
-Open water skipper with
hundreds of hours of
sailing experience in all
types of weather.

REFERENCES

Available Upon Request

of bearings, chain and belt sizes on motorized equipment.

- Led engineers in development of detail drawings.
- Led technicians in testing many manufacturing processes and procedures for creating the required composite parts.
- Performed in depth analysis of renewable energy system applicability for many sites including projects in the South Pacific, South East Asia, Central America, and the Caribbean. Typically this work involved site visits, interviews with power plant staff, power boards, ministries of energy and ministries of environment.

Circle Industries LC, Clearfield Utah

VP of Engineering, Director of Operations

- Completed (3) manufacturing plant set ups including flow analysis, equipment layout, wiring plan, and led the rigging and start up of the plants at three different sites in Clearfield.
- Developed, designed and managed a testing program as a subcontractor on a US Air Force equipment cycle test.
- Personally responsible for several new products and their designs including patents.
- Oversaw the manufacturing implementation of many new products
- Served for two years as Chief Operations Officer
- Designed process equipment and worked with plants to install the equipment in the U.S. and Canada. Some larger plants included Allside Ohio, Daymond Building Products Canada, Trinity Plastics Alabama, Signature Sports Brooklyn.
- Managed and led staff of up to ninety people.

Tensar Polytechnologies & Tensar Inc., Morrow Georgia

Product Engineer and Plant Engineering

- Worked with Tensar Polytechnologies marketing staff to design a retail product line for Big Box retailers like Builders Square, Lowes, Home Depot.
- Worked as lead engineer over 350 ton flywheel presses.

Integrated Engineering and Design, Ogden Utah

Founder and President

- Drawing CAD drawings from company hand drawings
- Re-engineered parts for CNC manufacturing equipment

Kerm Jackson, P.E.
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EDUCATION: BS Mechanical Engineering

Professional Engineer State of Utah, Nevada, Washington

WORK EXPERIENCE:

PSE, Salt Lake City, UT July 2014 to Present

- Process Engineer developing Process Flow Diagrams (PFD) and Piping and Instrumentation Drawings (P&ID) for multiple mining (mineral) processing plants
- Designed pumping and piping systems for processing plants
- Designed pumping systems using different types of pumps – centrifugal, slurry, piston, diaphragm, peristaltic, multistage
- Project Engineer overseeing design, installation and startup of gold mine conveying system. Developed budget, schedule and managed mechanical, civil, electrical and controls engineers and designers.
- Project Engineer designing mine (mineral) crushing equipment, screens, belt, screw, drag chain conveyors, dust collection ducting, bag houses and exhaust fans.
- Designed machinery to meet safety requirements of OSHA and MSHA.
- Developed and updated project schedules and cost estimates.
- Developed plant layout for equipment and building.
- **Projects were done on time and under budget.**

FLSmith, Salt Lake City, UT September 2012 to February 2014

- Project Engineer for mechanical design, PFDs and P&IDs, project scheduling and cost estimating.
- Designed crushing and sizing equipment, slurry pumps, pipelines, tanks, material handling through chutes and belt conveyors.
- **The projects were done within the time allotted in the very aggressive schedule.**

Tar Sand Processing Orem, UT 2011

- Entrepreneur doing research and development of tar sand process plant to remove the oil from the tar sand with a solvent.
- Provided the design calculations for processing vessels, distillation vessels, heat exchangers and balance the process flow rates. Developed PFDs and P&IDs and prepared fabrication drawings.
- Hands-on design of and building pilot plant.
- The pilot plant was operated for two months collecting operating data and production costs. This data was used to design and estimate the cost of a full production plant. **This project was done on time and under budget.**

Idaho National Laboratory (INL), Idaho Falls, ID 2009 to 2010

- Project Manager responsible for reviewing and approving designed drawings for the Heating Ventilation and Air Condition (HVAC) system.

- Reviewed and redlined drawings for revision during construction for the ventilation system. Submitted edited drawings for the as-built condition.
- Scheduled work for the subcontractor and resolved conflicts with other crafts and management.
- Managed the activities of the ventilation subcontractor ensuring that the construction and installation conformed to the specifications, recognized codes and safety standards. **The ventilation system was installed ahead of schedule.**

Delta Valve, Salt Lake City, UT 2006 to 2009

- Oversaw the installation of specialty valves for the petroleum industry.
- Developed P&IDs for the valve control system.
- Provided technical support to the customer for the field installation of the valves.
- Developed heat treating processes for surface hardening to improve life of the valves.
- Conducted Finite Element Analysis (stress analysis) of the valve to improve the overall design.
- Reviewed the manufacturing process to improve production. Drawing review showed the tolerance stack up allowed interference between parts making assemble impossible. **The tolerances were tightened to avoid this problem.**
- Provided project planning and scheduling for building the valves within budget and to the applicable standards – ASME, API, NFPA.
- Improved the manufacturing process by delivering materials “on time” to the manufacturing sites and then shipping “on time” to the next site. The investigation also revealed that by changing the actuator from hydraulic to electric, **a cost reduction of 30% was achieved.**

Employment

Timeshares Solutions, Sales Representative 2005 to 2006

- Sold timeshares

EG&G Defense Materials Inc. Tooele, UT. 1990 to 2005

- Process Engineer developing systems for the Chemical Munitions Processing Plant multiple stages of processing – feed conveyors, machine processing, storage tank for drained chemical agent, and hazardous waste storage volume.
- Developing P&IDs and PFDs for the Chemical Munitions Processing Plant balancing feed staging areas and process areas.
- Developed plant layout for equipment and buildings.
- Developed Operational and maintenance procedures for Chemical Munitions Processing Plant.
- Developed preventative maintenance procedures and schedules.
- Worked with maintenance personal to diagnose and create repair procedures to solve the problems. Investigated ways to illuminate the problems.
- Created Excel spreadsheets and graphs to track and report production data. **The statistical data was used to schedule the rebuilds of the incinerators and avoid major downtimes and damage.**

Environmental Manager

- Wrote permit applications and modifications – Air, Water, RCRA.
- Developed operating procedures for compliance to environmental regulations.
- Trained operations and maintenance personnel to comply to the environmental and safety regulations.
- Conducted public hearing meetings for permit applications and modifications.
- Trained and oversaw four engineering and 10 environmental specialists.

Computer Skills: Microsoft Office, Microsoft Project, Outlook, Primavera, Caesar pipe stress analysis, and 3D modeling Auto Cad and Solid Works.

Paul J. Freeman

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Credentials **Process Systems**

- Developed the process and tools for preparing engineering estimates increasing the capture rate by 40%.
- Managed the daily operations of a million ton cement plant bringing together the operational styles of multiple operators.
- Increased production rate by 16% on a horizontal ball mill grinding system.
- Developed PM (Preventative Maintenance) routines for grinding area, increasing MTBF (Mean Time between Failures) by 20%.
- Developed operational procedures for the optimal performance of plant equipment, maximizing the safe and consistent use of the equipment.
- Managed the organization of an \$8.1M capital budget to replace an outdated control system.

Problem Solving

- Analyzed then developed several solutions, creating a combined approximate \$1.4 million budget of capital improvements. These improvements led to reduced down time and increased production.
- Learned to comprehend hydraulic schematics in order to repair and bring back on line a critical hydraulic system.
- Created a communication network between the production and maintenance departments, opening the doors for immediate repairs.
- Researched outside of industry norms for solutions to now recognized plant wide procedures.

Managing People and Relationships

- Molded and encouraged a work crew to show accountability for their area's performance, by teaching and demonstrating a stronger work ethic which they, in turn, taught to new employees.
- Pursued company and government safety regulations for all employees including self, with results contributing to three years without a loss time accident.
- Encouraged and helped others to reach beyond their comfort zones to set goals and develop personal skill sets.
- Fostered and mentored several team members in utilizing the company's continuous education program, furthering their careers and contributions to the company.

Experience **President**, Utility Systems International, South Jordan, UT **April 2016-Present**

Responsible for the development of energy projects focused in the Caribbean and South Pacific Islands. Partnered with Caterpillar Inc. on a housing project for the Dominican Republic. Worked with an international project development company in bringing renewable energy to the island of Grenada. Working with a local solar company in developing controls for home solar systems.

Proposal/Project Manager, Precision Systems Engineering, Sandy, UT **July 2013-Present**

Responsible for the process and results of generating engineering proposals for Precision Systems Engineering's clients. Create and manage the process as well as the engineering managers who estimate the work and then pull together and craft the language to communicate the scope, schedule, budget as well as negotiate the payment terms, clarifications, and exceptions to the proposed projects.

2013 **Project Manager**, Precision Systems Engineering, Sandy, UT **Nov 2011-July**

Subcontracted to Rio Tinto's Kennecott Utah Copper Company as a project manager managing an \$8.1M budget. The project consists of migrating the PLC (Programmable Logic Controllers)

system at Kennecott's Concentrator from a legacy GE system to a state of the art Allen-Bradley, Rockwell System. Responsibilities also include accountability for contractor management, procurement of assets, as well as construction and commissioning of new PLC hardware.

- 2016** **Engineer, Business Development, Operations, MAETEC, Sandy, UT Nov 2010- Nov**
- Assist in the design and testing of a renewable energy system for generating electricity. Also assist in writing the business plan, seeking funding, and market research for the startup company. Wrote several provisional patents for filing.
- 2010** **Marketing and Training Consultant, IWN Group Inc, South Jordan, UT Sept 2008-Nov**
- Marketed a billion-dollar product and the complimentary support systems for the growth of an international company. Trained individuals to become independent marketing agents.
- 2008** **Production Superintendent, Ash Grove, Louisville, NE Aug 2006-Sept**
- Managed the process, production supervisors, and process engineers in the daily operations of a one million ton per year cement plant. Served as technical expert for the process ensuring all quality, environmental, and company targets were met.
- Aug 2006** **Production Supervisor, Holcim, US, Theodore, AL March 2004-**
- Supervised both the process and hourly employees in the daily operations of a 1.7 million metric ton per year cement plant. Ensured that quality and environmental ISO standards 9001 and 14001 were met, as well as safety and all company goals, budgets, and objectives. Certified as a control room operator. Studied various manufacturing and process improvement methods such as Six Sigma, Lean Manufacturing, and more.
- 2004** **Maintenance Supervisor, Holcim, US, Theodore, AL Jan 2000-March**
- Responsible for leading the safety, run time, and maintenance of a 480-tons-per-hour ball mill in and the raw-grinding system for the plant. Ensured the maintenance program was carried out daily. Scheduled the team's time and the equipment to coincide for PM's, repairs, and capital improvements. SAP experience.
- Process Engineer, Holcim, US, Theodore, AL July 1999-Jan 2000**
- Systematically analyzed under performing equipment. Determined causes and developed solutions. Made technical, economical, and operational recommendations, which resulted in designing and implementing new system improvements to the process.

Education	MBA, University of Alabama, Tuscaloosa, AL	May 2006
	BS, Manufacturing Engineering, Brigham Young University, Provo, UT	April
	1999	

Other Spoke to an audience of 5000+ people including a live broadcast with PBS. Competed in national/international Ballroom Competitions; placed first in both the British Formation Championships and in three US National Formation Championships. Eagle Scout with several palms and also volunteered as a scoutmaster. Enjoy home improvement projects, reading, family activities, traveling, and am conversant in Afrikaans.