


STEVEN CARSWELL NELSON, P.E.

Providing Efficient and Effective Project Engineering Leadership

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PROFESSIONAL SKILL SET

- Technical Leadership
- Project Engineering
- 3D CAD Modeling
- Product Management
- Kaizen | Lean Six Sigma
- Mechanical Design | Engineering
- Technical Writing | Presentations
- Root Cause Analysis | Mapping
- Data Analytics | Reporting
- Risk Identification | Mitigation
- Change Management
- Document Control
- Quality Management
- Manufacturing
- Contract Management

Ambitious, results driven professional with a proven record orchestrating complex projects for over 8-years
Big picture thinker and detailed tactician who excels at finding new ways to navigate adversity and solve challenges.
Keen ability to distill business objectives into clear, concise plans that support goals with optimal efficiency.

TECHNICAL PROFICIENCIES

Autodesk Inventor | Autodesk Fusion 360 | MathCAD | AutoCAD | SolidWorks | ProCore Construction Management
Bluebeam Revu | SAP | Oracle | Autodesk Vault | ANSYS | Optimus | Minitab | LiveLink | MS Teams | MS Project

LEADERSHIP EXPERIENCE

Johns Manville, Denver, CO

February 2019 – Present

Sr. Project Engineer | Project Engineer

Key Achievements:

- Proficiently led a capital project for procurement, installation and commissioning of an MSK Hooding System and Packaging Line in Cornwall, Ontario valued at over \$2M
 - Phased approach to installation; came in under budget/ahead of schedule; reduced downtime 15%
- Conceptually designed a \$60M new production facility in Hillsboro TX (\$60M+)
 - Created AutoCAD layouts; collaborated daily w/ Product Development, Operations, and other personnel
 - Planning included production line layout, raw material storage, hazmat storage, truck traffic, conference rooms, shipping office locations, pedestrian traffic, forklift traffic and office locations
- Oversaw design, factory acceptance testing, site installation, as well as commissioning of production line and process utilities for Hillsboro plant valued at roughly \$20M

Key Accountabilities:

- Responsible for supporting 5 Polyiso plants and respective plant engineers; takes lead on projects of highest value or complexity; facilitates quarterly meetings as Polyiso Board Platform Lead Capital Project Engineer
- Relied upon to create/manage budgets, define permitting requirements, source vendors and travel onsite (>50%)

Eluminocity, Denver, CO

November 2017 – December 2018

Product Manager

Key Achievements:

- Successfully cut 20% from BOM cost of production by resourcefully moving assembly facility from a contract manufacturer in Fremont, CA to Omaha, Nebraska
- Instituted Product Lifecycle Management System to track parts/revision control(s) on documents and BoMs
- Conceptualized and designed new product (Street side EV charger w/integrated LED screens) sold to one of the nation's largest utilities, enabling retrofitting w/ existing vault-vents on city streets with networked power
- Provided elite stewardship of product through successful UL certification at Intertek

Key Accountabilities:

- Responsible for ensuring all field units remained in working order; managed technicians in Seattle from Denver
- Relied upon to create product roadmaps, supply chain decisions and technical decisions regarding the products
- Spearheaded site selection, evaluation, discussion and disposition process with the city of Seattle DOT

OneSubsea, Houston, TX

June 2012 – July 2017

Lead Project Engineer | Connection Systems**Key Achievements:**

- East Nile Delta Phase 3: Pkg. value: \$2.5M; Engineering hrs. 8% under budget, 96% Engineering on time delivery
- Freeport McMoRan Dorado/King Development: Pkg value: \$4M, Engineering hours 20% under budget, 100% Engineering on time delivery
- Chevron Rosebank: Pkg value: \$60M, Engineering hours 10% under budget, 99% Engineering on time delivery
- Personally analyzed, designed and built \$6M worth of subsea production equipment including connectors, gaskets and jumper spools. (Freeport McMoRan Dorado Field and East Nile Delta)
- Expertly led team responsible for completing engineering documentation for a \$60M dollar package for Chevron (Rosebank project in North Atlantic just West of the Shetland Islands)
- Designed 140ft long 16" diameter jumper capable of 5ksi internal pressure capable of upwards of 15 ft displacements at each end (erosion, thermal expansion, etc.) and loading from subsea currents (a company 1st)

Key Accountabilities:

- Responsible for technical correctness of every piece of engineering documentation for a given project package
- Designated approver on every document for Chevron Rosebank Connection equipment
- Relied upon to take signed contract(s) and distill into a set of technical specifications, scope of supply and functional design specification, then create all engineering documentation to discuss w/ clients and stakeholders
- Analyzed structures to Industry Standards (API, ASME, DNV, Norsok, AWHEM, etc.); Generating internal design files and external client analysis summaries; Examples: Subsea rigid jumpers, gooseneck connectors and gaskets
- Seamlessly partnered w/ engineering support groups (metallurgy, welding, quality, aftermarket, systems, etc.)
- Resourcefully managed engineering hours between a worldwide team of engineers, designers and drafters to create drawings, layouts, stack-ups and bills of material

EDUCATION

Bachelor of Science in Mechanical Engineering, Minor in Business Administration

University of Tennessee, Knoxville – College of Engineering (2012)

Professional Training:

Licensed professional engineer in the state of Texas on Dec. 8, 2016 Cert # 125273

Licensed in Colorado on Sept. 22, 2017 Cert # 0052980

Completed instructor led training in the following subjects: GD&T (Geometric Dimensioning & Tolerances), Autodesk Inventor, Autodesk AutoCAD, Asset Care & Reliability (AC&R), Process Improvement, Capital Budgeting, Crucial Conversations & Accountability, Project Execution, Change Management, Designing to API 6A & 17D, Root Cause Analysis, Cause Mapping, FMECA, Document Control, ANSYS, ROV Accessibility, Metallurgy, Welding, Designing for Manufacturability, ROV Accessibility, Subsea Connectors, Subsea Wellheads, Subsea Trees, Subsea Processing, Systems, Subsea Manifolds, Site Safety, Schlumberger Safe Driving!, Public Speaking, Technical Writing

INTERNSHIPS

Design Engineering Intern – ARC Automotive, Knoxville, TN

January 2012 – May 2012

- Utilized Minitab statistical analysis tool to analyze airbag inflator test data and determined that supplier was mixing their lots of propellant and was directly responsible for the performance issues that had been noted

Design Engineering Intern – Altec, Burnsville, NC

January 2010 – December 2010

- Redesigned a rack from 12 parts to 2 identical laser cut parts and took assembly time from 2 hours to 5 minutes providing an annual savings of more than \$50,000
- Skillfully designed an entire truck body per custom specs; Helped w/ one of the 1st PHEV trucks (plug-in hybrid)