**Stephen Fell**

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**Technical Skills:** PPCL, Python , Excel VBA, Visual Basic, PostgreSQL, Power BI, Linux, shell scripting, Vim, Raspberry Pi, Microsoft Office, Techlog, SolidWorks, Delphi, Matlab, C++

**EXPERIENCE**

### Siemens Smart Infrastructure, Alaska

### Systems Specialist MAY 2021 - Present

Perform QC and startup of HVAC controls and building automation systems. Work specifically with Siemens PXC Compact controls and Desigo DXR total room automation systems.

* Troubleshooting of electrical and software problems.
* Work with Variable Frequency Drives and 3 phase motors.
* Integration of third party BACNet devices.

### Schlumberger D&M, Alaska

### Drilling Engineer, Survey Specialist JULY 2019 - APRIL 2020

Worked in a client facing position in-house for a highly valued client in North America, ConocoPhillips. Planned well trajectories, drilling permits, analyzed anti-collision, managed survey programs, generated plots and plans, torque & drag, hydraulics and vibration analysis. Additionally, took on the role of local Survey Specialist. Served as the single point of contact for any surveying issue in the field, advising on survey acceptance and troubleshooting as well as providing training for field engineers.

* Diagnosed and reported abnormal asset damages, reconciling costs more than $500k in one year.
* Executed quality improvement plans through drilling assembly (BHA) design and post-mortem drilling mechanics data analysis.
* Accelerated and enhanced survey QC processes by implementing standard operating procedures and managed the roll out of new software to the field crew.
* Reduced cost for the client by optimizing survey programs.
* Liaised with the USGS (United States Geological Survey) to manage the magnetic observatory in Prudhoe Bay.

### Schlumberger D&M, Alaska

### BP i-Center Engineer SEPTEMBER 2012 - JULY 2019

Promoted to lead engineer, guided the team and for the final 3 years, was given sole responsibility in sustaining service for our client, BP. Performed real time monitoring and advising on data streaming and data management for the client’s fleet of drilling rigs.

* Improved drilling efficiency through real time analysis and visualization of drilling mechanics data.
* Investigated incidents including liner hanger failures, bit failures, washouts, whipstock malfunctions, mud losses while drilling, cementing, wellbore breathing, pressure testing and well control events.
* Created and maintained a database of local drilling KPI and made recommendations to improve performance.
* Streamlined and automated data extraction from multiple data systems to increase efficiency with reporting.
* Utilized drilling engineering knowledge and Python language to create real time calculations to deliver custom solutions and data products to the customer.
* Used Python and Pandas to combine real time measured data with engineering models to evaluate drilling performance.

### Schlumberger D&M, Alaska

### Field Engineer SEPTEMBER 2007 - SEPTEMBER 2012

Position was based in remote locations such as Prudhoe Bay and Beluga, AK. Operated downhole measurement while drilling and logging technology used in drilling horizontal oil and gas wells to acquire and process data (gamma ray, resistivity, neutron density and porosity, and sonic data) and was the lead service engineer for many clients.

* Trained, coached and mentored junior engineers.
* Maintained a positive relationship with clients.
* Conserved rig time for the client, identifying and reducing the impact of high cost drilling events.
* Managed hazardous material inventory at the rig site.
* Certified to handle nuclear sources and work with ionizing radiation.

### Wayne-Dalton Corp., Pensacola FL

### Mechanical Engineer SEPTEMBER 2006 – SEPTEMBER 2007

Wayne-Dalton is a leading manufacturer of garage doors and overhead door openers. Worked in a facility that had stamping and roll forming operations as well as assembly for door openers.

* Planned for new products.
* Designed assembly line equipment modifications, including fixtures, sensors and automated test equipment.
* Increased production by 20% through continuous improvement and equipment design and layout.
* Researched and tested a variety of experimental ways to reduce vibration and noise in garage door opener assemblies.

### CRH North America, Clanton AL

### Controls Engineer DECEMBER 2004 - SEPTEMBER 2006

CRH, based in Solingen Germany was a tier 2 automotive supplier of seat track adjusters for Ford, Chrysler, BMW and Hyundai. Tasked with migrating all tool & die drawings to SolidWorks. Transitioned to the controls engineering team to conduct various research and development projects.

* Built robot inspection stations, utilizing computer vision software with Epson six-axis robotic arms.
* Created human machine interfaces using Borland Delphi programming language.
* Built an experimental SCARA robotic system for advancing parts in a progressive forming die.
* Researched and developed delta robot prototype for pick & place operations.

### EDUCATION

**Auburn University, Auburn AL** - Bachelor’s Degree, Mechanical Engineering

**ADDITIONAL TRAINING**

* Advanced Python (Skillsoft), Intro to Algorithms and Data Structures (Skillsoft), Into to SQL (Skillsoft), The Complete SQL Bootcamp 2020 (Udemy),
* ENG­1, Schlumberger Advanced Interpretation, Surviving Northern Waters, Scope School, OFS­3, HUET, Schlumberger DRILLING OPERATIONS SEMINAR
* EIT