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PROFILE

Kim Kelln is a data architect, data modeler and data analyst, contributing expertise to a broad spectrum of businesses since 1983. He has been instrumental in delivering effective and practical solutions to satisfy all of his customers' needs as they have evolved over the years. Kim's clients have included many of the major oil and gas operators, both upstream and downstream, service companies and data vendors. He has also designed information systems for business and engineering domains as diverse as electrical generation, transmission and distribution, rail transportation, and retail data management. Kim is recognized for his capabilities in information and data architecture, analysis, modeling, quality and integration, and for his background, knowledge and understanding of industry standard data models such as the Public Petroleum Data Model (PPDM), the ARTS Retail Operational Data Model, and the Common Information Model (CIM) for electric utilities.

Kim is a registered Professional Engineer (Lifetime P.Eng.) in the province of Alberta.

PROFESSIONAL EXPERIENCE

Dates:	December 2017 to March 2020
Company:	Exelon Utilities
Sub-contract:	Xtensible
Projects:	Exelon Utilities (EU) Analytics Program
Roles:	Data Architect, Modeler and Analyst
Technologies:	CIM, Oracle, Hadoop

The EU Analytics (formerly Business Intelligence / Data Analytics) program is a multi-phase project that will "maximize available information and trends to improve operations and overall customer experience." The project roughly comprised three main components - raw ingestion, Data Access Platform (DAP) and the analytics engine(s). Kim worked with the Xtensible team on the DAP component for two of the phases of this project. The DAP integrates the content sourced from disparate systems (e.g. OMS, IRS, Asset Suite, Cascade, ARC/GIS) and from each of the six utilities comprising Exelon. The first phase addressed the key use cases that support network connectivity. The second phase developed capabilities around outage prediction and response efficiencies, including assessment of overall asset health. The DAP structure was based on the CIM industry standard data model, with extensions to support specific business and data science use cases.

Dates: **January 2015 to June 2017**
Company: [Transcanada](#)
Sub-contract: [S.i. Systems](#)
Projects: **GIS Replacement Program**
Roles: **Data Analyst**
Technologies: **GIS, SQL Server, Oracle**

Kim was brought into the program to take responsibility for the initiation and conclusion of a number of research and analysis sub-projects. Three of the sub-projects were corporate wide assessments for 1) quality factors impacting (mostly) Pipeline Integrity, 2) all applications, data sets and business processes that will be impacted by the replacement of the current GIS, and 3) the impact on business processes, data sets and applications of the introduction of dual linear measurement systems. Kim was also responsible for completion of the physical data dictionary corresponding to the first two releases of the GIS data management system. Lastly, Kim is pulling together requirements for the 1) transition of components of the Hydraulics data management system to take advantage of the new GIS map interface, 2) the development of new processes for image processing to take advantage of the latest ARCGIS servers, and 3) system information to support sustainment.

Dates: **October 2014 to December 2014**
Company: [Devon Energy](#)
Sub-contract: [Noah Consulting](#)
Projects: **PPDM v3.8 Migration**
Roles: **PPDM Data Architect / Analyst**
Technologies: **PPDM**

Kim was the PPDM data analyst expert for the current deployment phase of the Devon PPDM v3.8 migration project.

Dates: **April 2014 to September 2014**
Company: [Mark's](#)
Sub-contract: [Cadeon Associates](#)
Projects: **Single Source of Truth (Phase I)**
Roles: **Data Analyst**
Technologies: **Oracle, Netezza, CDC**

Kim is providing data analyst support for the end of phase I of the Single Source of Truth project. This is (mostly) troubleshooting issues with the quality of the source data content and the proper migration into the ARTS-based data vault repository.

Dates: **October 2013 to December 2013**
Company: [ConocoPhillips](#)
Sub-contract: [Noah Consulting](#)
Projects: **Eagle Ford PPDM Data Warehouse**
Roles: **Data Architect & PPDM SME**
Technologies: **Oracle, TeraData**

Kim was brought in to provide PPDM expertise for the Eagle Ford business unit data warehouse that will be harmonizing and amalgamating all sources of engineering, production and project data related to the Eagle Ford development. In addition to consulting on PPDM issues, Kim also carried out detailed mappings from internal and external source systems of record into the Eagle Ford PPDM data warehouse.

Dates: **June 2013 to July 2013**
Company: [Devon Energy](#)
Sub-contract: [Noah Consulting](#)
Projects: **Asset Management (GHG Reporting)**
Roles: **Business Analyst & Data Architect**
Technologies: **n/a**

This was a very short term assessment project to determine approaches to enhancing asset management at Devon (US) to support the new GHG reporting requirements. Kim was involved in assessing current state and current assement management strategies.

Dates: **June 2012 to June 2013**
Company: [Groundswell Group Inc.](#)
Projects: **Cenovus DMS Managed Service**
Roles: **Data Architect & Subject Matter Expert**
Technologies: **n/a**

Kim is a member of the Groundswell DA team that is responsible for providing data architecture and data analyst services for projects initiated by the DMS group at Cenovus. The projects mostly involved content moving into and/or out of the Cenovus data warehousing systems, EDW (*formerly EDD – See Encana Corp., June 2005 to June 2006*) and FIS. The major project was the upgrade of both EDW and FIS to support the new Wellview and Siteview versions (*v9 and v4, respectively*). Kim's role was data architect and, to some extent, subject matter expert for EDW, Wellview and Siteview, and well data, in general.

Dates: **August 2011 to May 2012**
Company: [Husky Energy](#)
Sub-contract: [InSync Systems](#)
Projects: **Saskatchewan Registry Conversions**
Roles: **Data and data integration architect**
Technologies: **n/a**

This project was struck to understand and manage the changes to Husky systems and data stores arising from the Saskatchewan Government adopting the Petroleum Registry for regulatory reporting. The project had two components. The primary component related to the changes to production accounting from the new regulatory reporting requirements. Kim was involved in the second part of the project that was managing the changes to UWIs and facility codes. Kim's role, as well as that of everyone else on the project, was cross-functional in that it involved data, integration and business analysis.

Kim worked with the team on building out the primary artifact of the project - a reasonably comprehensive map of all of the systems impacted by the change and how information containing UWIs or facility identifiers moved between all of these systems. The scope was limited, of course, to systems and interfaces that were directly impacted by these changes. In addition to building out the map, Kim was instrumental in building out an understanding of the relationships of various Husky and other identifiers in relation to the government UWI and how the conversions need to be approached to minimize data corruption.

Kim was also the lead on the program and database changes related to handling of facility identifiers within Husky systems. With the commingling of Alberta and Saskatchewan facility information within the Petroleum Registry, and the move to all numeric identifiers, all systems that relied on uniqueness of codes across jurisdictions needed to be changed and tested.

Dates: **January 2011 to June 2011**
Company: [Transalta Utilities](#)
Sub-contract: [Noah Consulting](#)
Projects: **Common Data Access Release II**
Roles: **Data architect**
Technologies: **ER Studio, SAP/BW**

Release II of the common data access operational data store comprised trouble shooting and warranty work related to the Release I implementation, with additional fine tuning of the data management algorithms, processes and procedures. The algorithms used for the Estimated Gross Margin component of the installation were calibrated and additional production and pricing information was incorporated into the calculations. Kim worked with the Transalta team to build out the master and reference data management that support the program.

Dates: **July 2010 to December 2010**
Company: [Transalta Utilities](#)
Sub-contract: [Noah Consulting](#)
Projects: **Common Data Access Release I**
Roles: **Data architect**
Technologies: **ER Studio, SAP/BW**

Release 1 of the common data access operational data store included content for generation assets master data, production volumes, and financial transactions related to billings and settlements. The focus for information delivery in this release of the project was the content and methods necessary to support calculation, reporting and comparisons of estimated gross margin.

Kim's role, in conjunction with the Transalta architecture team, was to build out the data architecture, data models, and data management processes for the subject areas comprising the operational data store. The architecture and models needed to take into consideration the peculiarities of working within the constraints of SAP/BW to build out a (traditional) operational data store for data harmonization and delivery.

Kim was also responsible for architecting and modeling the solution required to build out the algorithms and processes used to defined and calculate estimated gross margin. In addition to the models, Kim worked with the Transalta team on the master and reference data management approaches and processes.

Dates: **March 2010 to June 2010**
Company: [Transalta Utilities](#)
Sub-contract: [Noah Consulting](#)
Projects: **Common Data Access Assessment**
Roles: **Data architect**
Technologies: *n/a*

This project had it's genesis as an assessment and evaluation for a monthly reporting and executive dashboard initiative, with support for a managed, master data repository. The initiative evolved to focus more on managed master data and data readiness for common data access, that would be capable of supporting and effeciantly building out required business management functionality.

The scope of the initiative included all operational data for production, availability, maintenance, facilities and human resources. In addition to assessing data readiness in most of these operational subject areas, and for almost all of the Transalta facilities, the team also worked with Transalta to assess and recommend the necessary technology stack and data governance model to support the initiatives.

Following the assessment, the team worked with the client to create a phased program and project plan to build out a common data access platform. The center piece of this common data access is an operational data store to harmonize content across the business, applications and data types, and an information delivery layer to deliver business content. The common data access is intended to be the seed for an eventual managed, master data management program.

Dates: **Prior to 2010**
Company: [Io Software Consultants](#)
Project: **Numerous**
Roles: **Data architect, data modeler, data analyst, software engineer**
Technologies: **Numerous**

Numerous information systems and turnkey applications in multiple domains.

CERTIFICATIONS

- 1997 American Society for Quality
Certified Software Quality Engineer (Re-certified 2004, Not renewed 2007)
- 1997 Association of Professional Engineers and Geoscientists of Alberta
Professional Engineer (*Structural, non-practicing*)

EDUCATION

- 1981 **Master of Science in Civil Engineering**
Specialization: Structural Engineering
University of Calgary, Calgary, Alberta, Canada
- 1976 **Bachelor of Science in Civil Engineering**
with Distinction
University of Calgary, Calgary, Alberta, Canada

PROFESSIONAL AFFILIATIONS

Association of Professional Engineers and Geoscientists of Alberta ([A.P.E.G.A.](#))
Association of Computing Machinery ([A.C.M.](#))

TECHNICAL

Languages: PL/SQL, SQL
Databases: Oracle, MySQL, SQL Server
Tools: ER Studio, Enterprise Architect
Models: PPDM, PODS, CIM, ARTS, Data Vault
