

Mark Reynolds

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APPLICATIONS --- SYSTEMS --- DATA

Senior Solutions Architect, Project Architect, Team Lead, Data Systems Manager, Adjunct Professor

Applications Development, Database Engineering, Solutions Integration, Team Lead
C#, VB, VBA, SQL, DBF, Clipper, FoxPro, Python, Agile, Machine Learning

Accomplished **Solutions** and **Data Engineer** demonstrating proactive application and integration of digital technologies. Senior **Dot NET Developer** adept at user engagement and robust feature rich solutions. **Solution Evangelist** with recognized command of processes, systems, and analytics. Recognized industry thought leader in Applications, Solutions, and Development.

Presenter at Houston Techfest, Tulsa Techfest, Houston DotNET User Group, Auston DotNET User Group.

Author for Code Magazine and Digital Energy Journal. Participant in StackOverflow and NuGET.

PRIMARY TECHNICAL SKILLS

C#	Microsoft Power Suite	Real-Time Engineer
SQL / SSMS	Azure Applications	Remote Operations
.NET (all)	Visual Studio	Software Architect
VB, VB.NET, VBA	Jet Brains / ReSharper	Database Architect
Clipper	Dapper / EF	Data Analytics Integrator
Crystal Reports	Azure ML / ML Studio	PPDM
FoxPro	Microsoft ML.NET	
Pascal		

REMOTE DEVELOPMENT PROJECT SUCCESSES

- ☆ Mail processing and automation application delivering products across the US.
- ☆ Web E-Commerce and teaching application providing medical certification training.
- ☆ Public resource forecasting integrating census, demographics, and enrollment analysis.
- ☆ Automated food processing and sortation systems and applications.
- ☆ Nondestructive testing system improving throughput while improving detection.
- ☆ Material management applications virtually eliminating errors while reducing support.
- ☆ Material handling computer and software improving accuracy and reducing field labor.
- ☆ Oilfield pipe inventory management system improving accuracy and integrating operations.

EDUCATION

Master Engineering	2005 Texas Tech University
BS Electrical Engineering	1980 Texas Tech University
Certified Secondary Teacher	Secondary Math, Computer Science, Business and Finance, Physics

PROFESSIONAL EXPERIENCE

Evolution Well Services, The Woodlands, Texas Enterprise Business Applications Manager

July 2021 to July 2022

Responsible for the deployment, operations, and support services of enterprise systems to ensure business continuity and alignment with business needs. Developed the Digital Transformation plan, established Development Standards, and Managed enterprise Finance and Accounting systems.

Key Projects:

- ✓ Provided the vision of the **digital transformation** project, the architecture, and the project plan.
- ✓ Defined cross-department **software development standards**.
- ✓ Defined the common system architecture for all development— C#, Power BI, Power Apps, SQL
- ✓ Accomplished major transition of the document management system into **DocLink**.
- ✓ Integrated Sage 300 into a common query portal to optimize Power BI and other development.
- ✓ Initiated **Master Data Management** architecture.

Skills Utilized: Systems, Analytics, .NET, C#, SQL, MDM, CQRS, TDD, SDLC

Lone Star College, Houston, Texas Online Computer Science Professor

January 2003 to May 2021

Additional Activities and Responsibilities:

- ✓ Adjunct Professor of the Year for 2009
- ✓ Created **course material** and lab manuals
- ✓ Member Curriculum Committee
- ✓ Participant in public promotional activities
- ✓ Technical and Developer Industry Conference Speaker
- ✓ Commercial Textbook Developer

Southwestern Energy, Houston, Texas Senior Solutions Architect, Data Architect, Project Architect

February 2010 to July 2018

Provided the vision and innovation identifying and implementing real-time knowledge and information projects; serving as the commonality between operations and information solutions; and guiding projects into integrated knowledge engineering. Responsible for identifying and implementing real-time knowledge and information projects. Responsible to pull together individual systems, repositories, and operation centers to add value, efficiency, and safety to the exploration and production environments.

Key Projects:

- ✓ Production surveillance and optimization (ProWELL+)
- ✓ Geosteering integration and analysis (Upstream Integrated Toolbox)
- ✓ 24/7 drilling operations (Rig Data Integration – RDI2)
- ✓ Real-time drilling aggregation and analytics (Rig Data Intelligence – RDI3)
- ✓ Drilling and completions asset allocation and scheduling (Dev Schedule)
- ✓ Upstream operations surveillance workbook (Surveillance Assistant)

- ✓ *Site Maintenance Response and Reporting (Site Inspection Regulatory System – SIRS)*
- ✓ *Royalty Interest Information Sharing*
- ✓ *Data Information Sharing Hub (DISH)*

Skills Utilized: *Systems, Real-Time, Analytics, .NET, C#, VB, VBA, SQL, PPDM, WITSML, Wellview, Boresight, Spotfire, MDM, CQRS, TDD, SDLC*

Intent Driven Designs, Houston, Texas
Principal Architect, Director, CTO

May 1998 to January 2010

Engineering and development director for real-time data acquisition, engineering, systems solutions, application architecture and development. Managed, implemented, and supported customer-directed operations solutions – real-time, operations-centric products and processes.

Key Projects:

- ✓ *Non-destruction Pipe Inspection System (DigiPro™)*
- ✓ *Oilfield pipe management, processing, and reporting (Tubular Data Systems – TDS™)*
- ✓ *Handheld inspection data aggregation and reporting (Portable Data Logger – PDL)*
- ✓ *Census analysis and enrollment projections*
- ✓ *Statement processing and mail processing system (GoPrint™)*
- ✓ *Automated dry-food processing and sortation system*
- ✓ *Service Fee Report Manager*

Skills Utilized: *Systems Architect, Data Architect, Project Architect, Real-Time, Electronic Engineering, Analytics, .NET, C#, SQL, VB6, Access VBA, Excel VBA, Clipper, LabView, Component One*

Scan Systems Corporation, Houston, Texas
Data System Manager

July 1990 to May 1998

Full charge manager for application development and delivery. Design, develop, and deliver oilfield applications including real-time data acquisition, mobility, and OCTG management systems. Duties included hiring authority and performance reviews.

Key Projects:

- ✓ *Tubular Data Systems™ (TDS) Oil Country Tubular Goods (OCTG) pipe yard management software*
- ✓ *DigiPro™ non-destruction OCTG inspection system*
- ✓ *TallyRite™ Custom portable OCTG data accumulation device*
- ✓ *Laser-based pipe-thread inspection application*

Skills Utilized: *Systems and Data, Real-Time, Electronic Engineering, VB, VBA, Clipper, FoxPro, C, C++, C#, .NET, 8051, Access VBA, Excel VBA, , Component One, LabView, Psion*

SYSTEMS AND SOLUTIONS WITH IMPACT

- ★ Production and Operations projects and processes saving approximately 25% engineering time.
- ★ Geo-steering analytics application suite reducing analysis time > 90% (days to minutes).
- ★ Real-time processing and operational analytics reducing analysis time > 90%.
- ★ Defined operational machine learning framework to increase production / revenue volume ~5%.
- ★ Master Data systems integrating silos providing analytics, assessment, reporting, solutions.
- ★ Site inspection management application raising environmental compliance > 95%.
- ★ Data Information integration and master warehouse framework for upstream planning.
- ★ Real-time drilling operations remote oversight and support integration systems and process.
- ★ Asset allocation and scheduling solution utilizing learning analytics eliminating idle time.
- ★ Nondestructive testing system improving throughput > 25% while improving detection 75-90%.
- ★ Material management applications virtually eliminating errors while reducing support > 90%.
- ★ Material handling computer and software reducing field labor requirements by 33%.
- ★ Handheld (mobile) portable data acquisition with centralized data retention and reporting.
- ★ Web E-Commerce and teaching application providing medical certification training.
- ★ Public resource forecasting integrating census, demographics and enrollment analysis.
- ★ Automated food processing and sortation systems and applications.
- ★ Near-real-time data streaming and ingestion.
- ★ Processing and extraction of data sources at scale.
- ★ Statement processing and mail processing system.
- ★ Speaker and teacher at technology gatherings.

APPLICATIONS RECOGNIZED BY PEERS

- ★ Production surveillance and optimization (ProWELL+)
- ★ Geosteering integration and analysis (Upstream Integrated Toolbox)
- ★ 24/7 drilling operations with Real-time aggregation and analytics (Rig Data Intelligence)
- ★ Real-time drilling aggregation and analytics (Rig Data Intelligence – RDI3)
- ★ Drilling and completions asset allocation and scheduling (Dev Schedule)
- ★ Upstream operations surveillance workbook (Surveillance Assistant)
- ★ Site Maintenance Response and Reporting (Site Inspection Regulatory System – SIRS)
- ★ Data Information Sharing Hub (DISH)
- ★ Non-destruction Pipe Inspection System (DigiPro™)
- ★ Oilfield pipe management, processing and reporting (Tubular Data Systems – TDS™)
- ★ Handheld inspection data aggregation and reporting (Portable Data Logger – PDL)
- ★ Statement processing and mail processing system (GoPrint™)

RECOMMENDATIONS BY PEERS

“richer having Mark on our team”, “great source of knowledge”, “gave me skills I needed”, “pleasure to work with”, “keen interest in latest technology”, “wide range of skills”, “immense understanding”, “key contributor”, “fortitude to [take on] onslaught of requests”, “remarkable efficiency”, “team player”, “reliable and enjoyable”, “problem solver”, “takes time to teach”, “want to get things done, hire Mark”