

APPLICATIONS ☆ SYSTEMS ☆ DATA ☆ INTEGRATION

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

As a seasoned **Application Solution Architect** and **Data Engineer** I bring a profound understanding of processes, systems, and analytics to the forefront of Application Engineering, Development, and Solutions. My consistent recognition as a **thought leader** underscores my prowess in driving innovation and transformation in this dynamic field.

I provide a comprehensive approach to **product-driven** solutions. Leveraging my expertise as a **Senior Dot NET Developer**, I proficiently utilize a diverse toolset including C#, VB, MS-SQL, Power Platform, and Azure Applications to engineer seamless and impactful solutions.

With a wealth of experience spanning decades, I am well-versed in **modern methodologies**, across diverse landscapes such as desktop, client-server, SOA, Azure applications, and client apps.

Guided by an unwavering commitment to success and fueled by **visionary problem-solving**, I am dedicated to delivering solutions that embody innovation, integration, organization, and accountability. As a leader, I prioritize active communication, fostering team growth and sustainability through my own example.

PRIMARY TECHNICAL SKILLS

C#	20+ yr exp.	Visual Studio	PPDM
VB.NET, VB6	30+ yr	Component One	WITSML
Office VBA	20+ yr	Telerik	PetroVault / PetroLink
SQL / SSMS	20+ yr	Crystal Reports	One Virtual Source (OVS)
SpotFire / Power BI	7 yr	Jet Brains / ReSharper	SAGE 300
Clipper and FoxPro	30+ yr	Dapper / EF	DocLink

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 systems improving throughput while improving detection.
- ☆ Material management applications virtually eliminate 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

RECENT EMPLOYMENT

IV&V Solutions Architect

Public Consulting Group, Boston, Massachusetts

Incorporated a proven track record collaborating with cross-functional teams to provide Independent Verification and Validation (IV&V) to governmental IT development projects. Integrated a comprehensive understanding of software development life cycle methodologies, enabling the delivery of high-quality IV&V services. Adept at collaborating with clients, vendors, and stakeholders to ensure project success while adhering to budgetary and scheduling constraints. Leverage extensive experience in software architecture, solution design, and project management to drive innovation and deliver exceptional results.

Key Competencies:

- ✓ *Technical Project Leadership*
- ✓ *IV&V Technical Oversight*
- ✓ *Software Development Life Cycle Methodologies*
- ✓ *Cloud Application Architecture*
- ✓ *Technical Design and UI Concepts*
- ✓ *Agile Methodologies*
- ✓ *Information Security Planning*
- ✓ *Client and Stakeholder Communication*
- ✓ *Vendor Process Oversight*
- ✓ *Vendor Relations Management*

Key Projects:

- ✓ *Medicaid Management Information Systems (MMIS) Modernization Project*
- ✓ *Medicaid Eligibility and Enrollment (E&E) Systems*
- ✓ *Automated Eligibility Child Support Enforcement System*
- ✓ *Pesticide Electronic Submission Tracking Project*
- ✓ *Health Analytics Program (HAP)*
- ✓ *Benefit, Employment and Support (BES) Support Services*

Senior Solutions Architect

Evolution Well Services, The Woodlands, Texas

Championed the seamless deployment, operational excellence, and steadfast support of enterprise systems within the oilfield services sector. Ensured unwavering business continuity and alignment with evolving business imperatives. Spearheaded the formulation and execution of a robust Digital Transformation strategy, while also establishing meticulous Development Standards. Orchestrated the adept management of critical enterprise Finance and Accounting systems, contributing to heightened operational efficiency and strategic decision-making.

Application Manager

Results-driven Application Manager with a strong background in deploying, managing, and supporting enterprise systems while adhering to company policies and procedures. Proven expertise in ensuring business continuity, technical issue resolution, and alignment of IT operations with business objectives. Adept at mentoring and leading technical teams to deliver exceptional service and maintain high levels of customer satisfaction. Skilled in forging strategic partnerships with external resources and implementing integrated solutions that drive efficiency and innovation.

Key Competencies:

Enterprise Application Management
Technical Issue Resolution
Team Leadership and Mentorship
Vendor Relationship Management
IT Operations Strategy
Process and Control Governance
Business Continuity Planning
Technical Standards Adherence
Strategic Planning and Deployment
Customer Service Excellence

Key Projects:

- ✓ *Led the initiation and execution of the Digital Transformation Initiative, revolutionizing processes and enhancing efficiency across the organization.*
- ✓ *Formulated and implemented standardized software development practices, fostering cohesion among various departments and elevating development quality.*
- ✓ *Architected a unified system landscape, encompassing diverse development technologies, optimizing collaboration, and streamlining development processes.*
- ✓ *Successfully orchestrated a significant transition of the document management system to DocLink, enhancing document management efficiency and accessibility.*
- ✓ *Seamlessly integrated Sage 300 into a centralized query portal, enhancing data utilization and advanced analytics capabilities for improved development outcomes.*

C# ✧ .NET ✧ SQL ✧ VBA ✧ Power BI ✧ Azure Function Apps ✧ Azure Logic Apps
Power Apps ✧ Azure DevOps ✧ DocLink ✧ Sage 300 ✧ GitHub ✧ Dapper

Online Computer Science Professor

Lone Star College, Houston, Texas

Distinguished computer science educator with a proven record of excellence in delivering impactful and engaging instruction. Adept at inspiring students to explore the intricate world of

computer science, develop critical problem-solving skills, and adapt to evolving technological landscapes.

Key Activities and Responsibilities:

- ✓ *Adjunct Professor of the Year for 2009*
- ✓ *Created course material and lab manuals*
- ✓ *Member Curriculum Committee*
- ✓ *Mentoring and advising*
- ✓ *Community involvement*
- ✓ *Technical and Developer Industry Conference Speaker*

C# ☆ SQL ☆ Microsoft Access / VBA ☆ Microsoft Excel / VBA ☆ VB.NET ☆ HTML

Senior Solutions Architect

Southwestern Energy, Houston, Texas

Showcased visionary thinking and innovative prowess in conceptualizing and achieving real-time knowledge and information initiatives. Served as the conduit between operational aspects and information solutions, steering projects towards cohesive knowledge engineering. Responsible for identifying and executing real-time knowledge and information endeavors. Skillfully coordinated the amalgamation of discrete systems, repositories, and operational hubs, leading to elevated value, streamlined efficiency, and enhanced safety within exploration and production domains.

Key Projects:

- ✓ *Architect and Project Manager for the Production surveillance and optimization (ProWELL+) solution*
- ✓ *Architect and chief developer for the Upstream Integrated Toolbox (UIOT) providing integration between the complimentary domains of Geology and Engineering*
- ✓ *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)*
- ✓ *Data Information Sharing Hub (DISH)*

C# ☆ SQL ☆ VBA ☆ VB6 ☆ VBA ☆ Access VBA ☆ Excel VBA ☆ OVS ☆ PetroVault
WITSML ☆ PPDM ☆ WellView ☆ SpotFire ☆ Entity Framework ☆ Dapper ☆ Telerik

Principal Engineer and Architect

Intent Driven Designs, Houston, Texas

Skilled Director of Engineering and Development with a strong emphasis on real-time data acquisition, engineering, system solutions, application architecture, and development. Spearheaded both engineering and applications teams, directing the coordination, execution, and maintenance of customer-driven operational solutions. Specialized in crafting real-time, operations-centric products and processes for enhanced performance.

Key Projects:

- ✓ *Architect of the Non-Destruction Pipe Inspection System (DigiPro™), leveraging innovative technology for accurate and efficient inspection of pipelines.*

- ✓ Architect of the Tubular Data Systems™ (TDS) for Oilfield Pipe Management, Processing, and Reporting solution, optimizing operational efficiency and data-driven decision-making.
- ✓ Data Analytics Engineer leading census analysis and enrollment projections projects, providing critical insights for informed resource allocation and planning.
- ✓ Architect and chief developer of a streamlined Statement Processing and Mail Processing System (GoPrint™), enhancing operational efficiency and customer communication.
- ✓ Architect and chief developer of an Automated Dry-Food Processing and Sortation System, optimizing production efficiency and product quality in food processing.
- ✓ Architect and chief developer for the Service Fee Report Manager, facilitating comprehensive and accurate management of service fee data and reporting.

C# ☆ SQL ☆ Access ☆ VB6 ☆ VB.NET ☆ VBA ☆ Component One ☆ Crystal Reports
Symbol / Windows CE ☆ National Instruments ☆ Grayhill

Data System Manager

July 1990 - May 1998

Scan Systems Corporation, Houston, Texas

In-depth managerial role overseeing the entire lifecycle of application development and deployment. Accountable for the conception, creation, and successful rollout of oilfield applications, including those for real-time data acquisition, mobility solutions, and OCTG management systems. Duties included hiring authority and employee performance.

Key Projects:

- ✓ Architect of the Tubular Data Systems™ (TDS), an advanced software solution for Oil Country Tubular Goods (OCTG) pipe yard management.
- ✓ Architect and Electronics Engineer of the DigiPro™ system, a cutting-edge non-destructive OCTG inspection technology.
- ✓ Architect and Electronics Engineer of the TallyRite™ custom portable OCTG data accumulation device, optimizing data collection processes and facilitating accurate inventory tracking.
- ✓ Engineered a Handheld Inspection Data Aggregation and Reporting tool (Portable Data Logger – PDL), enabling seamless data collection and on-site reporting.

VB6 ☆ Access ☆ Clipper ☆ FoxPro ☆ Symbol / Windows CE ☆ Psion

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”