



Summary of Experience

Stephen Ashworth provides a unique combination of expertise in information systems, big data, telecommunications, finance, and business management to clients as their trusted advisor with over 20 years of experience in the ever-changing field of Technology.

Project Experience

IAM Architecture Design and Automation Buildout

CASINO ARIZONA

Mr. Ashworth designed and implemented an autonomous Employee Lifecycle solution for Casino Arizona (CAZ). With CAZ HR SaaS platform as System of Record, all employee CRUD operations are automatically processed in AD, including Groups, Permissions, Applications, and Access control.

Multi-Forest IAM Architecture Design and Implementation

GRAND CANYON UNIVERISTY

Mr. Ashworth was engaged to rearchitect the IAM environment for GCU and its parent company Grand Canyon Education. Encompassing over 120,000 active students, 8,000 staff and faculty, and additional colleges recently acquired, GCU's AD/AAD IAM infrastructure is one of the largest in the world. Adding to the complexity of the design was the transition to an MSP model for GCE IT staff.

Architecture Design, Implementation of Citywide Next Generation Fiber Wide Area Network

ARIZONA STATE UNIVERSITY

Mr. Ashworth was engaged to develop and oversee the deployment of ASU's 100Gb Metro and Downtown WAN Fiber Infrastructure to support innovative Smart City initiatives, public-private partnerships, and various advanced research collaborations. As part of this effort, he helped draft the University's IAM Charter and advised the University Technology Office on Decentralized Identity solutions.

The EV Project – Idaho National Laboratory

US DEPARTMENT OF ENERGY

Mr. Ashworth served as database architect / analyst to INL's team of engineers and scientists behind the EV Project's "Lesson Learned" Series of Whitepapers. The American Recovery and Reinvestment Act (ARRA) EV Project collaborated with city, regional and state governments, utilities, and other organizations in 16 cities to deploy about 14,000 Level 2 PEV chargers and 300 DC fast chargers. It also deployed 5,700 all-electric Nissan Leafs and 2,600 plug-in hybrid electric Chevrolet Volts. The American Recovery and Reinvestment Act supported several projects that together made up the largest ever deployment of plug-in electric vehicles and charging infrastructure in the U.S.



DevOps System Center Implementation

EDGENUITY, INC.

Mr. Ashworth was engaged to develop and implement the organization's transition to a DevOps business model for its IT systems support and development teams. Project deliverables included the design, deployment, and integration of Ops Manager, Virtual Machine Manager, Orchestrator, Configuration Manager, and Visual Studio Team Foundation Server deliver dynamic, highly available server farms in support of its Distance Learning Curriculum. Mr. Ashworth worked with each department within the organization to define desired business processes, dependencies, and success metrics during the envisioning phase, then designed and deployed the complete architecture. This solution autonomously responds to excess concurrent student demands, building and deploying virtual domains with SQL servers, Application Servers, Load Balancers, and Web Servers that deliver curriculum content without any manual intervention required.

IoT Product Design, Development and Supporting Data Warehouse Deployment

ELECTRIC APPLICATIONS, INCORPORATED

Mr. Ashworth led a team of developers and engineers in the design and deployment of an inexpensive monitoring unit for battery backup systems supporting Cell Towers in under-developed countries. The project successfully deployed units across East Asia, Germany, and Africa, with each unit transmitting data every second to a robust data warehouse in the Cloud.

Infrastructure Consulting, Cloud Ramping, Student Data Analytics

MESA PUBLIC SCHOOLS, TUCSON UNIFIED SCHOOL DISTRICT, CHANDLER UNIFIED SCHOOL DISTRICT, KYRENE UNIFIED SCHOOL DISTRICT

Mr. Ashworth has consulted Arizona's largest school districts on many enterprise-scale

technology infrastructure projects and student data initiatives. Much of his work has focused on 1:1 Programs, which provide laptops to each student, and the integration of Classroom Learning Systems, Student Information Systems and Device Management Systems to capture, process, and analyze usage and learning trends. Armed with this analysis, teachers identify at-risk students quickly and early results have shown great success in remediation, as well. In addition, administrators gain insight into the classroom and can more easily identify what makes one teacher more effective over another in hopes of improving all teachers through their findings.

Public Safety Consulting

CITIES OF CLARKDALE, COTTONWOOD, CAMP VERDE, TEMPE, GILBERT, AVONDALE, SURPRISE, TOLLESON, SEDONA, GLENDALE, LA PAZ COUNTY, ARIZONA DEPT OF PUBLIC SAFETY

Mr. Ashworth has consulted Arizona cities, towns and counties on secure public safety data, communications, and wireless connectivity solutions for law enforcement. This included technical and financial evaluations of current radio and cellular technologies, security solutions, and encryption technologies, as well as negotiations and implementation planning with major Cellular Carriers, software vendors, and ruggedized hardware providers. Mr. Ashworth helped these clients achieve compliance with State and Federal Criminal Justice Information Systems (CJIS) policies and architected secure wireless communications solutions that permit mobile data connectivity to federal databases.

Microsoft Dynamics CRM / Great Plains Implementation

PHOENIX SUNS / ARIZONA DIAMONDBACKS

Mr. Ashworth led a team of consultants as engagement director on a long-term project for



the Suns and Diamondbacks that integrated ticketing sales and team financials systems across the teams' venues, merchandising, and marketing entities. The successful deployment provided team management with true real-time financial reporting and forecasting abilities previously unseen in professional sports.

IT Outsourcing Justification, and RFP development/evaluation

CIGNA MEDICAL GROUP OF ARIZONA (CMG)

As a consultant for Cigna Medical Group of Arizona (CMG), Mr. Ashworth constructed business justification for IT outsourcing, developed technical specifications and business requirements for a Request for Proposals, then assisted in response evaluations.

Senior Market Mgr. / Systems Analyst

SHOPPERS EXPRESS / ONCART, INC.

Mr. Ashworth's introduction to technology was during the original dotcom boom working for one of the first Internet Grocers, Shoppers Express / OnCart, Inc. After leading the rollouts of the Internet-based Grocery Delivery Service in Phoenix, Los Angeles, Seattle and Atlanta, Mr. Ashworth was persuaded by the company's Chief Technology Officer and Vice President of Software Development to join the Technology Group. The experience proved instrumental in shaping his eventual career in technology, and continues to provide a wealth of knowledge gained from the experiences of lessons learned to this day.

Education and Certifications

- 📌 Microsoft Certified Systems Engineer
- 📌 Microsoft Advanced Infrastructure Design and Deployment Partner
- 📌 University of Texas at Austin
- 📌 Arizona State University
- 📌 Johns Hopkins University – Data Science Specialization

Relevant System Expertise

- 📌 Microsoft SQL Server 2012-2019
- 📌 SharePoint, Exchange, Teams, Zoom
- 📌 Active Directory, Azure AD, M365, Exchange Online
- 📌 PowerShell
- 📌 Microsoft Azure
- 📌 Datacenter Infrastructure
- 📌 Microsoft System Center Suite
- 📌 Tableau, PowerBI, PowerQuery
- 📌 Azure Data Factory
- 📌 Dynamics 365, PowerApps, Dataverse
- 📌 Dynamics GP
- 📌 R, M, DAX, Python, C# Programming Languages
- 📌 Cisco Switching and Routing, ASA Firewalls
- 📌 Certified Unix Administrator