

Hi, We are Innovators

We innovate to better human lives. Our ingenious technology solutions enable government agencies to fulfill their mission..

Customer Centric Digital Innovation



Since 2006, Arch Systems has successfully delivered high-quality services to federal, state, and local agencies to solve their challenges related to program management, enterprise architecture, digital transformation, and IT modernization. Our customer-centric approach, proven Agile methodologies, and Human Centered Design (HCD) practice ensure optimum resource utilization, cost-savings, and efficient program execution.

Data Science and Engineering

- Data Mining & Analytics
- Big Data Processing & Analytics
- Data Management Services
- Business Analytics
- Data Assessment, Validation and Verification
- Data Visualization
- Database Operations

Artificial Intelligence/ Machine Learning

- AI-Enabled Decision Support
- Machine Learning Model Development & Optimization
- Natural Language Processing (NLP)
- Computer Vision
- AI for Cybersecurity
- AI Workflow Automation & RPA Integration
- MLOps & Model Lifecycle Management
- AI for Forecasting & Predictive Analytics
- Ethical AI & Governance
- Decision Science
- Operational Research
- Graph/Embeddings

IT Services Delivery

- Call Center & Help Desk Support
- IT Support Services & Training
- Full-stack Development
- Open Source and Proprietary Technologies
- Testing and Validation
- Microservices Architecture
- User Experience Design
- Independent Verification and Validation (IV&V)
- Site Reliability Engineering (SRE) Support
- Disaster Recovery
- Incident Response
- Procurement and Administrative Support

Robotic Process Automation

- AI-Powered RPA
- Hyper automation
- Autonomous Process Optimization
- Low-Code/No-Code RPA Platforms
- AI Decision Engines
- Cloud-Native & Cross-Platform RPA
- Advanced Security and Compliance
- Embedded Analytics & Insights
- Conversational RPA
- Adaptive & Context-Aware Bots3

Cyber Security

- Web Security
- Risk Vulnerability Assessment
- Network Monitoring & Analysis
- Cloud Security
- Application Security
- Adaptive Capabilities Testing
- Security Controls Assessment
- Penetration Testing
- Risk Management Framework (RMF)
- Security Controls Assessments and Audits

Healthcare IT

- Medical Review
- Electronic Health Records(EHR) Specifications Development and Review
- Clinical Quality Measures Data Quality, Data Validation, and Improper Payments
- Healthcare Program Integrity
- Fast Healthcare Interoperability Resources® (FHIR®) Standards Analysis and Development Services
- Program Assessments and Evaluation

DevSecOps

- Agile DevSecOps Development
- CI/CD
- Operations and Maintenance
- Application Automation
- Platform Automation

Cloud Solutions

- Cloud Migration
- Cloud Native Application Development
- Cloud Consulting
- Cloud Automation

Human Centered Design Services

Product:

- Integrated with effective iHCD tools
- Inclusive of your Entire Organization
- Intuitive to Learn from Data
- Intelligent Platform & Process
- HCD Subject Matter Experts (SMEs)
- HCD Training
- Scaling HCD for the Enterprise

Enterprise Architecture

- Technical Business Management (TBM)
- Business Process Modeling/Reengineering
- Graphical Modeling
- Paperwork Reduction Act (PRA)
- Records Management
- Metadata Management
- IT Resources Alignment
- CIO Support

Program Management

- Project Portfolio Management
- Agile/SAFE
- Project Management
- Quality Management
- Quality Audits
- 508 Compliance
- Technical Writing

capabilities & expertise



Empowering Innovation Through Partnership

Where Vision Meets Execution in Every Digital Mission



IT Service Partners



World Leading Product Alliances



Certified AI Governance.



Key Differentiators

- CMMI L3 (CMMI-DEV) Development
- CMMI L3 (CMMI-SVC) Services
- Numerous Federal Prime Contracts
- Exceptional CPARS/Past Performance
- Federal Government Approved Accounting System
- Large Staff of Technologists
- ISO 9001
- ISO 20000
- ISO 27001
- Top Secret Security Facility Clearance
- CMMC Level 2 Certified



NAICS Codes

- 541511 - Custom Computer Programming Services
- 541512 - Computer Systems Design Services
- 541513 - Computer Facilities Management Services
- 541519 - Other Computer Related Services
- 541618 - Other Management Consulting Services
- 541690 - Other Scientific & Technical Consulting Services
- 541990 - All Other Professional, Scientific, & Technical Services
- 518210 - Data Processing, Hosting, and Related Services
- 541611 - Administrative Management and General Management Consulting Services



Award-winning Innovative Company



- Recipient-Federal Health IT Innovations Awards 2017, 2018, and 2019
- Recipient - Top 100 MBE Innovators Award
- Inc. 5000 Award - 6 years (#61 on Inc 5000 in 2020)
- FAST 100 Asian American Business
- Selected Top Maryland Small Business
- Selected Top Baltimore Small Business
- 2024 TechConnect Award - QEDA-IS Recognized for Breakthrough Emerging Tech Innovation
- 2025 Disruptive Tech Summit - Honored for Federal Data Impact
- 2025 FXPElev8 Award - Recognized for Operational Excellence & Federal-Industry Vision

AI Prototypes for DoW



leadership

Team Bios



Vini Ehsan
FOUNDER AND CEO



Vini Ehsan, Founder & CEO – Arch Systems

- Founder and CEO of Arch Systems, a minority, woman-owned business delivering federal contracts across multiple agencies.
- Over 15 years of IT program management experience; direct CIO-SP3 GWAC Program Manager since 2018, overseeing scope, budget, and compliance.
- National Innovation Awards (2017–2025) – Honored with Six (6) National Innovation Awards, including the 2025 Innovation Award including Disruptive Tech Award and FXPElev8 Awards.
- Advanced academic credentials: Doctorate (in progress) in Business Administration and Technology Entrepreneurship; master's in computer systems management; Certificate in Information Assurance; B.S. in Computer Science/IT. Certified Scrum Master, Enterprise Architect, and experienced Business/Systems Analyst and Contracts Manager.
- Recognized leader in healthcare IT (50+ federal projects) with industry awards including Inc. 5000 (#61), 3x Federal Health IT Innovations, Brava Award, and Top 100 Minority Business Enterprise.



Dr. Prentice Norman
VICE PRESIDENT



Dr. Prentice S. Norman , VP of Enterprise Solutions Architecture – Arch Systems

- 20+ Years of Cybersecurity & Architecture Leadership – Specialized in Zero Trust, AI/ML-enhanced compliance, and enterprise-scale security across DHS, DoD, and IC.
- Chief Architect at DHS/USCIS – Led major IT modernization and enterprise architecture initiatives at USCIS, including:
- Development of Zero Trust cybersecurity capabilities in compliance with NIST and CIS standards.
- Governance of a \$150M IT portfolio covering cloud, data, and enterprise architecture .
- Authored 100+ security policies and implemented architecture reviews for \$730M in DHS IT spending.
- Program Delivery – Project Manager for DHS USCIS BADSSD (\$19M), leading governance boards and innovation lab pilots with 100% milestone compliance.
- Certifications – CISSP, CEH, AWS Security Specialty, Microsoft AI Engineer, Certified Scrum Master, FAC-COR Level II.
- Military Foundations – Former U.S. Army Satellite Communications Operator with tactical encryption and mission communications expertise.



Dr. Narayan Srinivasa
CHIEF AI SCIENTIST



Dr. Narayan Srinivasa, Chief AI Scientist – Arch Systems

- 30 Years of AI/ML Leadership – Expert in multi-modal AI systems (text, image, video, audio, hyperspectral, geospatial) with 100+ peer-reviewed publications and 125+ issued patents.
- Federal Program Leadership (\$125M+) – Principal Investigator on DARPA, IARPA, Navy, and DoD AI programs including SyNAPSE (\$39M), UPSIDE (\$18M), Physical Intelligence (\$11M), ME Commons In-Hardware learning prototype, and other programs.
- Neuromorphic Computing Pioneer – Led Intel's Loihi chip development (4,700+ citations), a self-learning processor enabling real-time, multi-modal edge AI.
- Generative & Multi-Modal AI Expertise – Applied transformer attention, stable diffusion, and cross-modal fusion to security, defense, and autonomous vehicle applications.
- Secure & Ethical AI – Developed privacy-preserving AI using federated learning and knowledgeable about lattice based cryptography
- Operational AI Deployment – Delivered production AI systems for automotive safety (GM), cybersecurity, and defense with measurable impact (false alarm reduction, energy efficiency, cost savings).
- Recognition & Leadership – IEEE Fellow (2022) for neuromorphic AI, Fellow of AAIA (2025), IEEE Distinguished Lecturer (2024–26), Associate Editor, Frontiers in Neuroscience journal, invited expert on DARPA, DoE, NNSA, Air Force, and IARPA panels.
- Education – Ph.D. in Mechanical Engineering (AI-based intelligent control), University of Florida; Beckman Post-Doctoral Fellowship, University of Illinois Urbana-Champaign.



Shonell Morrisey
SENIOR DIRECTOR



Shonell Morrisey – Senior Director of Business Development – Arch Systems

- Senior Director of Business Development with a strong track record of driving growth across small and mid-tier organizations
- Expertise in navigating complex challenges and translating strategy into execution
- Focus on streamlined processes, scalable platforms, and building high-performing pipelines
- Skilled presenter and negotiator with strong communication abilities
- Proven ability to build and sustain relationships with clients and partners
- Consistently delivers measurable revenue results
- Strategic, results-oriented approach to business development
- Leverages an extensive network across government and industry
- Enhances organizational capacity and accelerates long-term growth

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