

CELENIUM

SOLUTIONS ARCHITECTS AND SYSTEMS ENGINEERS

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ENGINEERING INFRASTRUCTURE FOR THE FUTURE

Secure • Smart • Resilient

ABOUT CELENIUM®

CELENIUM®, established in 2009, is a **vendor-neutral solutions architecture** and **systems engineering** firm supporting **mission-critical systems, networks, and digital infrastructure modernization**.

We bridge OEM innovation with operational execution by helping clarify requirements, define architecture, coordinate vendor interfaces, support integration and validation, and produce lifecycle documentation for **secure, scalable, and mission-ready infrastructure**.

Our architecture-driven approach helps federal, public-sector, prime-contractor, and enterprise teams **simplify complexity, reduce delivery risk, and improve technical execution**.

PERFORMANCE RESULTS

- **75% time savings** in automation and network decommissioning
- **50% cost reduction** in SD-WAN and HCI projects through technical due diligence
- **15% faster delivery** through structured front-end design reviews
- **100% multi-vendor compliance** across 3GPP & CALEA systems
- **Site handover cut from 6 months to 2 weeks** in Oracle/AT&T migration

PRIMARY NAICS CODES

541512 - Computer Systems Design | 541330 - Engineering Services | 541519 - Other Computer Services | 541690 - Technical & Engineering Consulting Services | 541511 - Custom Software Development

CONTACT

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"Bridging strategy, engineering, integration, and documentation for mission-critical infrastructure."

CORE COMPETENCIES

Solutions Architecture & Systems Engineering

- Requirements analysis, secure architecture design, validation planning, and lifecycle documentation.

Infrastructure Integration & Commissioning Support

- Vendor/OEM coordination, MOPs, acceptance test planning, implementation/cutover planning, commissioning records, as-builts, and technical closeout.

ICT & Industrial Modernization

- Private LTE/5G, edge, IP transport, cloud migration, virtualization, and IT-OT-Edge convergence.

Test & Measurement Automation

- LabVIEW-based DAQ, control, HMI, validation, analytics, and configuration traceability.

DIFFERENTIATORS

- **Mission-Aligned, Architecture-Driven Delivery** — results-focused, standards-compliant, and scalable
- **Trusted Collaborations** — Supporting Nokia and Facebook initiatives and long-term subcontracting with Oracle to modernize Tier-1 providers (Sprint, T-Mobile, AT&T, Verizon, TELUS, UScellular).
- **Documentation Excellence** — clear, traceable deliverables that support implementation, commissioning, sustainment, compliance, and closeout.
- **Agile with Enterprise-Grade Depth** — responsive small business with large-scale technical maturity

Let's discuss how CELENIUM® can support your next infrastructure or modernization program.

Client Testimonial – Oracle

"Ahmad is a top-tier engineer and solution architect who brings clarity, precision, and professionalism to every engagement." — Hanan Dadon, Oracle



Realizing Complex Programs through Solution Architecture and Systems Engineering

From Technical Clarity to Delivered Capability

WHEN COMPLEX PROGRAMS NEED TECHNICAL CLARITY

Complex infrastructure and modernization programs often involve **multiple stakeholders, vendors, technologies, interfaces, and handoffs**. Even strong concepts can lose momentum when requirements are unclear, dependencies surface late, or technical documentation does not keep pace with execution.

CELENIUM[®] helps **agencies, prime contractors, operators, and project teams** bring structure to this complexity. We **clarify requirements, align technologies, support integration planning, validate assumptions, and produce the documentation** needed for implementation, **commissioning, acceptance, and sustainment**.

*That is the difference between deploying components — and **engineering solutions**.*

QUALITY COMMITMENT – PRECISION BY DESIGN

At **CELENIUM**[®], quality is engineered into every deliverable.

Our **DRIVES Framework** — *Develop, Review, Incorporate, Verify, Enhance, Sign-off* — applies structured rigor from design through delivery.

Modeled on the ISO 20000 **Plan-Do-Check-Act** cycle, it ensures early engagement, continuous feedback, and version-controlled documentation.

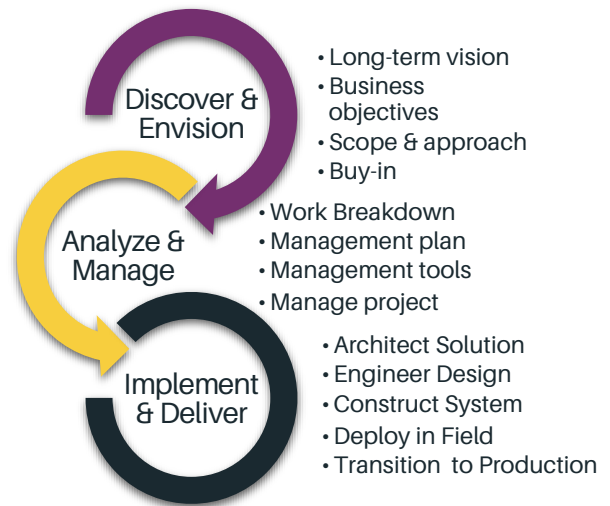
Each deliverable is peer-reviewed, validated, and traceable — reducing rework and ensuring **accurate, supportable solutions that perform reliably**.

CELENIUM[®] — *Where architecture, engineering, and execution align. Let's deliver what works.*

THREE-STEP PROCESS – FROM VISION TO DELIVERY

At **CELENIUM**[®], process turns innovation into execution. Adapting the **Oracle Unified Method (OUM)** and **Unified Process (UP)**, we ensure every project meets its business and mission goals.

Our approach is **business-driven, architecture-centric, iterative, and risk-focused**, guiding each engagement through three stages — *Discover & Envision, Analyze & Manage, and Implement & Deliver* — to achieve outcomes that work with precision and confidence.



LEADERSHIP

Dr. Ahmad Sultan

An engineering leader with more than 25 years of experience supporting telecom, enterprise, and mission-critical infrastructure modernization, Dr. Sultan combines systems thinking, structured analysis, technical documentation discipline, and practical execution.

His leadership defines **CELENIUM**[®]'s architecture-driven approach — bridging strategy, engineering, integration, and delivery to produce reliable, supportable outcomes.

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Professional Endorsement

"Ahmad's precision and depth of analysis set a high standard and made him a trusted expert across the organization." — Jim Hoch, Lucent Technologies