

CYDEO Federal builds and modernizes the software agencies run on, and puts AI inside those systems with a human hand on every irreversible action. Behind this statement is a seven-year production estate — **19,232 commits by 89 engineers** across a Kubernetes microservices platform and the serverless systems that replaced it — carrying **\$38.0M across 58,338 transactions**, gated by **2,700+ automated tests**. Every figure below traces to source.

CORE COMPETENCIES

541511 AGILE PRODUCT DESIGN & DELIVERY

541512 Multi-disciplinary product teams delivering custom application development, system integration and sustainment: 144 API routes and a published 127-path OpenAPI contract in one system; 22 unattended business processes; signature-verified, exactly-once financial transaction handling over an immutable ledger; human-centered design measured, not asserted.

541512 LEGACY APPLICATION MODERNIZATION & DATA MIGRATION

A ten-service, 936-endpoint Java platform moved off a single hand-deployed server onto Kubernetes in nine months without rewriting the applications, then ran five more years. Java 8 to 17, four Angular major versions in one live app. We reconcile before we cut over: 27,987 records matched read-only and 3,030 routed to human review before a row moved.

541511 AI IMPLEMENTATION & AI GOVERNANCE

541715 Generative AI in production since March 2023, with token accounting on every call. Human approval queues, deny-by-default guards on irreversible actions, read-only-by-construction data access, and a verbatim-evidence rule that discarded any AI-extracted field whose quote was not literally in the source document — across 5,574 documents, 96.7% agreement on audit.

541511 ENGINEERING EXCELLENCE: IV&V, TEST & EVALUATION

541519 Reliability and technical-debt reduction backed by measurement: 2,700+ automated regression cases across two production platforms; a 1,352-line requirements traceability matrix mapping 120+ numbered requirements to named tests with gaps flagged, not hidden; requirement-to-test generation graded by mutation testing; performance testing at 1,000 concurrent threads; Section 508 / WCAG 2.0 AA contrast verified by rendered-pixel measurement.

541512 SECURE CLOUD ENGINEERING & DEVSECOPS

541519 A software factory in production: 203 CI workflows, every pull request given its own disposable copy of the whole platform including clones of all eight databases, dependency scanning as a required merge gate. Infrastructure as code in CloudFormation, Helm, Terraform, Ansible and CDK; encrypted cluster secrets; deny-by-default row-level security.

611420 CYBER RANGE & IT WORKFORCE DEVELOPMENT

A multi-tenant cyber range delivering an isolated lab in under 5 seconds across 41 templates, including live Splunk and Wazuh SIEM exercises and six OWASP-class vulnerable-web labs; a learning platform at 344 courses and 27,397 lessons; 150 hours of instruction converted into a competency rubric with 422 verbatim-verified citations.

DIFFERENTIATORS

- **Evidence instead of assertion.** Traceability matrices, mutation-tested suites, reconciliation reports that publish their own unmatched residual, and written records of our own failures.
- **A human gate on every irreversible AI action.** Approval queues before anything sends, confirmation flags on every write-capable agent tool, confidence bands routed to people, spend ceilings in code — the posture OMB M-25-21 describes, built before policy asked.
- **Throughput.** The current platform generation: two engineers, 1,825 commits, seven months. AI-assisted engineering is how this firm works, not a proposal line item.
- **Compliance written into the code.** Contact-hour rules computed in the recipient's time zone and failing closed; consent stored with timestamp, IP and user agent; disclosure logic citing the statute.

COMPANY DATA

UEI

H385N639CBM6

CAGE

9YHL5

STATUS

SDVOSB (SBA VetCert) · Small Business
· Virginia LLC

NAICS

541511 Custom Computer Programming Services
541512 Computer Systems Design Services
541519 Other Computer Related Services
541715 R&D, Physical/Engineering Sciences
611420 Computer Training

PSC

DA01 Application Development Support
DD01 Service Delivery: ITSM, Project Mgmt
DJ01 Security & Compliance Support
R425 Professional: Engineering/Technical
U012 IT Training

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19,232

Commits by 89 engineers across a seven-year production estate

\$38.0M

Processed across 58,338 transactions on systems we built and operate

2,700+

Automated test cases gating two production platforms

41

Cyber-range lab templates, isolated environment in under 5 seconds

REPRESENTATIVE WORK

MODERNIZATION & DEVSECOPS

OFF ONE SERVER, ONTO KUBERNETES, NO REWRITE

Nine Java services and an Angular front end served live users from a single hand-deployed EC2 instance, with manual release steps and no rollback.

- The substrate changed, not the applications: multi-stage containers, declarative cluster definition, eight databases, encrypted cluster secrets, secrets pulled from parameter store at deploy
- Proven before abandoned — the new stack's first commit and the old stack's last are three days apart
- Every pull request then provisioned a disposable copy of the whole platform, including clones of all eight databases, with the URL posted back to the PR and the environment reclaimed on close
- Ran five more years there: 25 Helm charts, 203 CI workflows, dependency scanning as a merge gate

AI IMPLEMENTATION

EXTRACTION A REVIEWER CAN AUDIT

Ten years of contracts and payments across three processors, reconciled against signed agreements, with every number defensible line by line.

- 5,574 contracts parsed; any AI-extracted field whose quote was not literally present in the source PDF was discarded, with the page recorded
- 96.7% agreement on a 150-document blind re-extraction audit
- Matches auto-accept only above 0.92 similarity; the 0.80–0.92 band always routes to a person
- \$936,931 reconciled across 874 accounts, 81.1% closed in full

DATA MIGRATION

RETIRING A SYSTEM OF RECORD WITHOUT LOSING A ROW

A commercial CRM and accounting stack holding a decade of history had to give way to a purpose-built system of record, with no gap in the money trail.

- 27,987 legacy records reconciled read-only first — 24,544 matched by email, 3,030 deliberately routed to human review before a row moved
- 76,401 of 76,562 lead records matched, 99.79%, with the comparison report kept as the migration artifact
- A live run moved 20,299 enrollments to 20,772, deduplicated 13 programs to 7 with zero orphaned keys, and printed its own idempotency check
- Cross-platform migration runs as a daily parallel sync, not a big-bang cutover

CYBER RANGE & T&E

ENVIRONMENTS AND TESTS THAT GRADE THEMSELVES

A multi-tenant range where each learner gets a disposable environment scored against the live system, and a pipeline that turns written requirements into executable tests.

- 41 lab templates: Splunk and Wazuh SIEM investigations, six OWASP-class vulnerable-web labs, MITRE ATT&CK-mapped content, seven-role access with per-tenant isolation
- Grading scripts run in a network-isolated, capability-dropped sandbox, on the assumption that a content-author account may be compromised
- Requirements-to-tests generation where every criterion carries a verbatim quote checked by script, and coverage is graded by real mutation testing — defects caught, correctly attributed, no false positives

KEY PERSONNEL

TYLAND HUNTER SR.

CHIEF EXECUTIVE OFFICER - MAJORITY OWNER

Combat-decorated U.S. Army veteran, 19K armor crewman, multiple deployments to Iraq and Afghanistan. Juris Doctor, Ave Maria School of Law. Sixteen years across national security, technology policy and defense strategy, including counter-UAS programs. Directs the firm and holds signature authority on every submission.

KUZZAT ALTAY

CHIEF TECHNOLOGY OFFICER

Founder of CYDEO, the technical-education company whose engineering team and production estate back this statement. Built and operates the CRM, payment, learning and analytics platforms cited here. Harvard executive education. Leads the firm's AI engineering practice and its agent guardrail patterns.

FEDERAL EXPERIENCE & TEAMING

Recent federal pursuits. Administrative Office of the U.S. Courts — Cyber Range for Training (USCA25Q0053), proposal submitted November 2025 after market-research engagement with the program office. U.S. Air Force (AFDW) — Cyber Training and Education Pilot (FA701425Q0048), September 2025. Wisconsin National Guard — remote cyber-readiness micro-learning proposal, December 2025.

How we contract. We pursue SDVOSB set-asides as prime, including VA requirements under 38 U.S.C. §8127, and team as a subcontractor on larger vehicles. As an SBA-certified SDVOSB we are a similarly situated entity under FAR 52.219-14, so our workshare counts toward a prime's self-performance floor on a set-aside task order. Our bench is drawn from the CYDEO alumni network — test automation, cybersecurity and software engineers we trained ourselves.