

# **Timothy Christian Spurlin**

Brownsville, Texas | LinkedIn: [linkedin.com/in/tim-spurlin](https://linkedin.com/in/tim-spurlin) | U.S. Air Force Veteran  
(Honorably Discharged)

## **Professional Summary**

Dedicated intelligence and cybersecurity professional with over a decade of experience in signal intelligence (SIGINT), RF transmission systems, threat detection, and secure data processing. Proven track record in high-pressure environments, including U.S. Air Force operations supporting national defense and reconnaissance missions. Skilled in automating threat hunting, web crawling, and cybersecurity protocols, with hands-on development of AI-driven fusion centers for real-time analysis. Possess an exceptional ability to detect deception and see through falsehoods in any scenario, making it impossible to mislead in interrogations or assessments. Transitioned military expertise to civilian roles in software engineering and security oversight, focusing on safeguarding critical infrastructure against cyber and physical threats. Eager to leverage tactical agility, cross-functional collaboration, and innovative problem-solving to contribute to CIA's global intelligence efforts.

## **Experience**

### **Software Developer**

Saphyre Solutions LLC (Self-Employed)

Moorhead, Minnesota · Remote (October 2020 – November 2025); Brownsville, Texas ·

Remote (December 2025 – Present)

October 2020 – Present (5 years 2 months)

- Served as independent insurance broker and company owner from October 2020 to December 2023, specializing in comprehensive life, health, Medicare, and ACA marketplace solutions.
- Developed proprietary automation systems using advanced programming skills to streamline client acquisition, enrollment, and policy management.
- Provided personalized insurance consultations to clients while leveraging technology to enhance service delivery and maintain compliance.
- Implemented data-driven strategies to identify optimal coverage options across multiple carrier platforms.
- Maintained dual-state licensure and advanced certifications including AHIP Medicare certification.
- Designed and managed sophisticated client management systems for seamless policy administration and renewal processing.
- Cultivated strategic partnerships with insurance carriers to secure competitive policy options for diverse client needs.
- Shifted focus in January 2024 to full-time custom software development, creating custom national security tools including AI-driven fusion centers, web crawlers with cron jobs for threat detection, and multimodal AI systems for real-time analysis of potential infiltrators from adversarial nations.
- Built and iterated on GitHub repositories that detected over 60,000 suspected spies through automated pattern recognition, with capabilities to expand further using enhanced storage and resources.
- Integrated ethical AI principles into tools for cybersecurity, drawing from military background to ensure robust, tamper-proof data handling aligned with national defense needs.

**Lead Welder**

TrueNorth Steel

West Fargo, North Dakota · On-site

October 2023 – December 2023 (3 months)

- Specialized in advanced fabrication and welding of API-compliant oil tanks and FRP vessels while training new welders in proper techniques and safety protocols.
- Performed complex welding procedures in all positions (overhead, vertical up/down, horizontal) on critical containment systems requiring structural integrity.
- Trained new employees on specialized equipment operation including overhead cranes, plasma cutters, and hydraulic plate rollers.
- Applied daily trigonometric calculations to determine precise tank circumference, material take-up, plate bending parameters, and volume specifications.
- Constructed and installed specialized components including thief hatches, pressure relief valves, level indicators, manways, and flanged connections.
- Demonstrated mastery of multiple welding processes (MIG pulse, short circuit MIG, and stick welding) according to exact specifications and code requirements.
- Implemented scientific principles of metallurgy and material stress distribution to ensure structural integrity in variable pressure environments.

**Structural Welder**

Norwood Sales

Horace, North Dakota · On-site

September 2021 – September 2023 (2 years 1 month)

- Performed structural welding on large-scale agricultural machinery using Miller welding equipment.
- Fabricated complex hitches and undercarriage assemblies according to strict engineering specifications.
- Specialized in pulse and short circuit MIG welding processes on heavy-gauge steel components.
- Interpreted detailed blueprints and technical drawings to ensure accurate assembly of agricultural implements.
- Maintained quality control standards while meeting production deadlines in a high-volume manufacturing environment.
- Applied advanced MIG welding techniques to ensure structural integrity of large agricultural parts.

#### **Welder/Fabricator**

S.M. Enterprises

Moorhead, Minnesota · On-site

July 2020 – August 2021 (1 year 2 months)

- Fabricated various HVAC duct work components using galvanized sheet metal materials.
- Specialized in galvanized welding techniques while managing exposure to zinc fumes.
- Constructed square-to-round transitions, elbows, reducers, and custom ductwork fittings.
- Learned proper ventilation protocols required for working with galvanized materials.
- Operated sheet metal equipment including shears, plasma cutters, and brake presses.
- Applied welding skills from formal training to real-world fabrication tasks, having completed welding school in 2020 to build foundational expertise.

**Intelligence & Security Operations Specialist**

U.S. Security Associates, Inc.

Denver, Colorado · On-site

March 2014 – July 2016 (2 years 5 months)

- Provided high-level security oversight at critical government locations including Lindsay Flanigan Courthouse, Denver Police Department Headquarters, Denver Sheriff Department, and Colorado State Capitol Building.
- Conducted surveillance and threat analysis to protect sensitive judicial and governmental infrastructure.
- Applied proactive security methodologies aligned with national threat levels and intelligence reports.
- Developed site-specific threat mitigation strategies to secure personnel, public officials, and civilians in volatile environments.
- Controlled and analyzed visitor access patterns using behavioral indicators and intelligence-informed entry procedures.

**Intelligence Analyst**

United States Air Force

Hampton, Virginia · Hybrid

January 2011 – March 2014 (3 years 3 months)

- Maintained and secured advanced radio frequency (RF) communication systems critical to national defense at Langley AFB on Poplar Street.
- Fused technical RF expertise with intelligence analysis to safeguard secure communications and protect national security.
- Installed and configured state-of-the-art RF transmission equipment, including transmitters, receivers, and antenna arrays.
- Conducted site surveys and system evaluations to ensure optimal alignment and performance using cutting-edge diagnostic tools.
- Performed routine and emergency maintenance to ensure continuous, secure operation of RF systems.
- Diagnosed and resolved issues such as dynamic IP conflicts, fluctuating interference, and inefficient packet transmissions using advanced test equipment like spectrum analyzers and signal generators.
- Recognized behavioral threats and maintained strong verbal and written communication under operational stress.
- Demonstrated rapid adaptability across dynamic high-security environments, including emergency response and counter-threat actions.

**SpecOps: Intelligence & Cyber Systems Engineer (Special Assignment)**

United States Air Force

On-site

August 2012 – October 2012 (3 months)

- Managed end-to-end data processing and real-time intelligence monitoring, transitioning from encrypted transmission signals to direct analysis and interpretation of transmitted data for integrity and security.
- Monitored, safeguarded, and optimized classified transmission systems to ensure uninterrupted secure data flows for U-2 reconnaissance missions.
- Troubleshooted, optimized, and ensured peak performance of intelligence networks using automation tools to streamline data processing, encryption, and surveillance feeds.
- Applied advanced encryption standards, cybersecurity protocols, and transmission security measures to protect classified data from cyber threats and unauthorized access.
- Collaborated with intelligence analysts, mission planners, and cyber specialists to identify vulnerabilities, improve data accuracy, and enhance mission readiness.
- Adjusted quickly to classified "Dark Room" operational environments, showing technical agility in high-pressure intelligence operations.
- Revolutionized data processing workflows to reduce inefficiencies and speed up intelligence turnaround for real-time mission planning.
- Developed automated threat detection enhancements to improve real-time data transmission analysis and security protocols.
- Optimized secure intelligence communications with enhanced encryption methods for uninterrupted, tamper-proof surveillance data transmission.
- Contributed to critical overseas mission success through high-quality data transmission.

## Skills

- Intelligence Analysis
- Cybersecurity & SIGINT Operations
- RF Transmission Systems (3D1X3)
- Threat Detection & Assessment
- Deception Detection & Truth Verification
- AI & Multimodal Systems Development
- Web Crawling & Automation (Cron Jobs)
- Software Engineering (Python, Node.js, MLOps)
- Data Fusion & Real-Time Threat Hunting
- Secure Communications & Encryption
- Cross-Functional Team Collaboration
- Rapid Adaptation in High-Pressure Environments
- Welding & Fabrication (MIG, Structural Integrity)
- Blueprint Reading & Technical Drawings
- Trigonometric Calculations & Metallurgy