

Stephano Chatham

Altamonte Springs, FL

TS-Cleared Technical Engineer | Additive Manufacturing • Systems Engineering • Weapons & Forensics SME

<https://stephanochatham.com> • U.S. Marine Veteran

HIGHLIGHTED STRENGTHS

- Additive Manufacturing (FDM/SLA), CAD Modeling, Engineering Support
 - Weapons & Ballistics SME: Trajectory Reconstruction, Bullet-to-Barrel Analysis, Toolmarks
 - Systems Engineering: Diagnostics, Electromechanical Systems Support
 - Federal Technical Documentation, Chain-of-Custody Compliance, Precision Measurement
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PROFESSIONAL SUMMARY

TS-Cleared Technical Engineer and former FBI Physical Scientist with extensive experience in weapons systems analysis, forensic engineering workflows, additive manufacturing support, and electromechanical system diagnostics. Served as a subject-matter expert in ballistics, toolmarks, and trajectory reconstruction, supporting high-visibility federal cases and laboratory research. Strong mechanical/electrical foundation paired with disciplined execution and mission-focused performance as a U.S. Marine veteran.

PROFESSIONAL EXPERIENCE

Federal Bureau of Investigation (FBI Laboratory), Quantico, VA

Physical Scientist – Firearms & Toolmarks Unit (GS-12) | Nov 2018 – Sep 2025

- Served as a Weapons & Ballistics SME, supporting national-level forensic investigations and federal operational needs.
- Conducted bullet-to-barrel comparisons, toolmark examinations, and trajectory reconstructions for complex shooting events.
- Supported additive manufacturing activities by producing non-classified 3D-printed components under approved laboratory workflows.
- Performed engineering-oriented measurement, documentation, and controlled testing tasks to support scientific evaluations.

- Authored detailed forensic and technical documents used in federal reporting and internal laboratory processes.
 - Collaborated with examiners, engineers, and field units to improve analytical processes, documentation clarity, and workflow efficiency.
 - Ensured strict adherence to evidence handling, chain-of-custody requirements, and federal laboratory standards.
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U.S. Marine Corps

Expeditionary Airfield Systems Specialist (7011) | 2012 – 2014

- Installed, maintained, and inspected expeditionary airfield systems including lighting, power distribution, and arresting gear.
 - Conducted electrical and mechanical troubleshooting in field conditions to support rapid operational readiness.
 - Performed corrective and preventive maintenance aligned with military safety and technical standards.
 - Honorably discharged following medical review; recognized for reliability, technical competence, and precision.
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ENGINEERING & ADDITIVE MANUFACTURING PROJECTS

- Supported additive manufacturing operations, producing approved non-classified components for internal engineering workflows.
 - Assisted with CAD-based visualization and component documentation using Fusion360, SolidWorks, and Creo.
 - Conducted precision measurement tasks and supported engineering procedures requiring controlled laboratory conditions.
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WEAPONS & ARMORER CERTIFICATIONS

- Master Gunsmith – American Gunsmithing Institute (AGI)
- M16/M4 Armorer – AGI
- 1911 Armorer – AGI
- Glock Certified Armorer – Glock
- Firearms Technology Certification – Sonoran Desert Institute

- Cowboy Action Armorer – AGI
 - FBI Specialized Firearms & Toolmarks Unit Training
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EDUCATION

B.S., Electrical Engineering Technology (Mechatronics Concentration) – ECPI University, 2018

A.S., Electrical Engineering Technology – ECPI University, 2017

TripleTen Engineering Program (Full-stack Software Engineering) – 2024–2025

TECHNICAL SKILLS

Additive Manufacturing • FDM/SLA Printing • CAD (Fusion360, SolidWorks, Creo) •

Electromechanical Diagnostics • Ballistics & Toolmarks Examination • Trajectory Modeling •

Python (Foundational) • Precision Measurement •

Engineering Instrumentation • Federal Technical Documentation •

Mechanical & Electrical System Troubleshooting