



# FOUNDER'S PROFILE

# Thomas M Snyder

Founder & Lead Innovator  
of the World's First Universal  
Smart Gun Converter Second Trigger

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# Summary

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Innovative and self-taught technology entrepreneur with hands-on experience in product development, intellectual property, design, engineering, manufacturing, and leadership. Founder of Second Trigger, an emerging smart gun technology company currently in development, with six patents filed (three granted) and three generations of functional prototypes, software, and apps. The Fifth patent converts our technology into fully integrated weapon platforms, the sixth patent covers Lidar and machine learning.

Driven by persistence, curiosity, and a focus on practical innovation. Proven ability to lead concept-to-prototype development with minimal resources, manage remote collaboration, and maintain cost-efficient technical progress under pressure.

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## Core Competencies

- Smart Gun Technology & Innovation
- Patent Drafting & Intellectual Property Strategy
- Advanced Prototyping & CAD Design
- Remote Team Leadership & Management
- Strategic Budgeting & R&D Cost Management
- Technical Documentation & Process Optimization
- Self-Built Networking & Professional Relationships
- High-Level Problem Solving & Critical Thinking

# Experience & Accomplishments

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## FOUNDER & LEAD INNOVATOR | SECOND TRIGGER (2017–2018, 2021–Present)

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- Developed a universal smart gun conversion device for striker-fired, double-action, and single-action handguns—designed to be removable, anonymous, and secure.
- Filed six patents (three granted, three pending) covering core technologies including proximity-based unlocking, directional recognition, motion sensing, optical fiber sensor arrays, Lidar integration, and logic-driven firearm access.
- Built and refined three working prototype generations along with supporting mobile software (iOS and APK). Systems remain under internal testing and ongoing development.
- Showcased the technology at Collision 2024, North America's second-largest tech conference, selected as one of the top 1,700 startups worldwide for innovation and impact.
- Independently managed all R&D budgeting and reduced filing and prototyping costs significantly through resourceful planning.
- Created a structured digital archiving and organization system for technical records, designs, communications, and accounting.

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## REMOTE TEAM LEADERSHIP (2022–Present)

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- Led a small remote team of engineers and designers through electronic development phases, software development, graphic design, troubleshooting, and iteration.
- Balanced technical direction with team wellbeing and adaptable timelines to maintain consistent project momentum.

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## MANUFACTURING KNOWLEDGE (2021–Present)

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- Gained working knowledge in additive manufacturing, traditional manufacturing, and PCB production using DFM (Design for Manufacturing) and DFA (Design for Assembly) principles.
- Built early relationships with manufacturing partners and component suppliers to explore viable production options.

## Inspirational Figures & Quotes

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### SHUJI NAKAMURA

Perfected the blue LED despite isolation and resistance.

### NIKOLA TESLA

Worked tirelessly without recognition, revolutionizing energy.

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"The moment you doubt whether you can fly, you cease forever to be able to do it." — J.M. Barrie

## Goals & Aspirations

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- Launch Second Trigger into the market as a leader in smart firearm safety.
- Gain experience with B2B2C growth models through mentorship and shadowing.
- Expand into future technologies and continue building a strong, evolving IP portfolio.
- Develop a charitable initiative dedicated to a family member.

### Growth Area

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- Reserved in unfamiliar group settings.

### Vision Statement

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I believe that real-world experience, relentless problem-solving, and practical innovation have prepared me to face complex challenges. I remain eager to grow through mentorship and partnership and welcome the chance to collaborate with aligned industry

# Intellectual Property Highlights

US11774199B2 – ISSUED 10/03/2023 NARROW

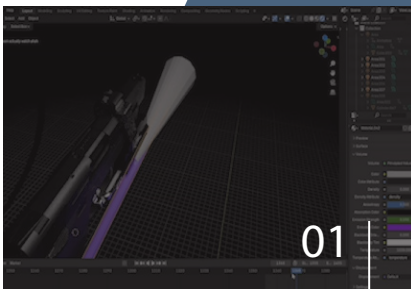
US12379176B2 – ISSUED 08/05/2025 HIGH VALUE

US12405077B2 – ISSUED 09/02/2023 NARROW

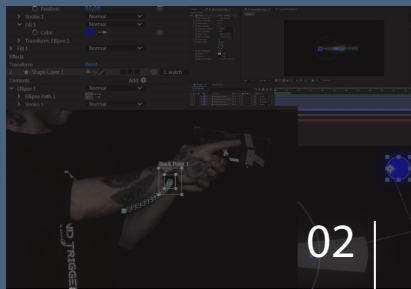
US19/177,638 – FILED 04/14/2025 HIGH VALUE

US63/869,364 – FILED 08/24/2025 HIGH VALUE

CA/3,255,531 – FILED 09/04/2024 HIGH VALUE



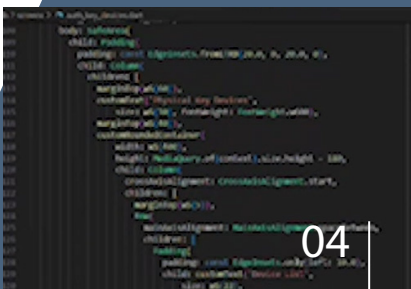
01



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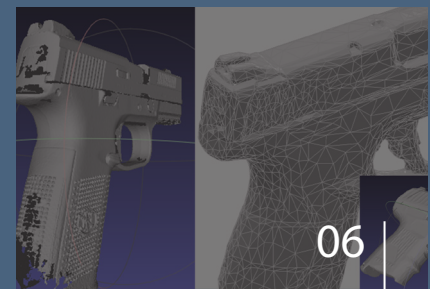
03



04



05



06

**01. Animation/Modeling**  
3D animation setup and modeling Gen 3 using Blender.

**02. Video Editing**  
Timeline editing and tracking in Adobe After Effects.

**03. PCB Design**  
7th Gen ST PCB layout design and trace optimization in KiCad.

**04. Embedded Coding**  
Xcode environment with custom ST firmware development in progress.

**05. CAD Engineering**  
Second Trigger CAD design modeled in Solid Edge.

**06. 3D Scan Cleanup**  
MeshLab 3D gun scan cleanup and geometry inspection.

Explore additional project highlights in the "Journey" blog section and post section at [www.lonecivilian.com](http://www.lonecivilian.com)

## Supplementary Skills & Technical Experience

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Additional proficiencies developed through independent work and project execution.

Video Editing (5 yrs, Premiere Pro, After Effects) – Proficient

Animation (0.5 yrs, Blender, AE) – Elementary

Organizational & Digital Archiving (6 yrs) – Excellent

Soldering & Circuit Troubleshooting (1 yr) – Proficient

MeshLab / healing 3D scans (1 yr) – Proficient

Customer Psychology (2 yrs) – Proficient

C++ Coding (1 yr) – Elementary at best

Graphic Design (6 yrs) – Excellent

Creative Writing (4 yrs) – Excellent

Adobe Photoshop (4 yrs) – Proficient

Website Design (5 yrs) – Proficient

Photography & Digital Media (7 yrs) – Excellent

Accounting & Budgeting (4 yrs) – Excellent

American Patent Law (4 yrs) – Proficient



# F O U N D E R

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