

Dalton Casto

<https://daltoncasto.space>

Email: Daltoncasto7796@gmail.com

Phone: 1-712-318-9021

Relevant Work Experience

Product Architect & Rapid Prototyper | Quantum Mischief Labs | Devils Lake, ND

06/2025 - Present

- Architected "**Quantum Sentry**," an AI-orchestrated Proof of Concept (PoC) pipeline designed to execute automated data anomaly detection via quantum processing simulations. Leveraged Python and PennyLane to test cross-language anomaly detection loops.
- Prototyped the "**Lifeline Protocol**" ecosystem, establishing offline-first functional data structures and communication capabilities for low-connectivity environments.
- Developed "**Lifeline Sentry**," a predictive analytics PoC designed to simulate hyper-localized, real-world community resilience scenarios based on FEMA defined demographic archetypes.
- Launched "**LifelineLoadout.com**," a website PoC designed to allow users to create their own survival resiliency kits based on their family details and other metrics.
- Pioneered accelerated development workflows using natural language programming environments (Google AI Studio, Vertex AI, Firebase Studio) to bypass legacy coding cycles and rapidly deliver functional technology prototypes.
- Authored technical documentation and architecture overviews for emerging AI startups (**Lifeline Protocol** and **Assembli.AI**), translating complex concepts into high-value technical assets.
- Began development of "**Main & Maple**," a modern community directory designed to support and uplift local small businesses and tech startups.

Independent Creative Technologist & Designer | Freelance | Devils Lake, ND

04/2026 - Present

- Designed and deployed a website overhaul for "**4K Mobile DJ**," featuring dynamic pricing calculators and custom UI elements.
- Led end-to-end brand architecture for "**Waggin' Wheels**," conceptualizing the visual identity, logo, and digital presence.
- Prototyped digital assets and creative solutions using AI design tools (Gemini, Canva Pro) to drive client engagement.

Quality Assurance & Documentation Specialist | LoopFlow | Toronto, Canada (Remote)

09/2023 - 04/2025

- Led human-in-the-loop testing architectures to meticulously stress-test system features and identify software vulnerabilities in staging environments.
- Identified and isolated a critical logic anomaly within the core codebase prior to launch, ensuring a stable enterprise release.
- Maintained absolute accuracy in bug tracking systems to facilitate seamless and secure developer hand-offs for engineering fixes.

Operations Manager | Nebraskan Marketplace LLC | Omaha, NE

10/2021 - 02/2025

- Architected automated workflows to manage rapid business scaling, replacing manual operations with efficient system logic.
- Maintained 99% enterprise data accuracy, ensuring reliable models for core operations and supply chain continuity.
- Mitigated logistical risks and anticipated market trends through advanced data surveillance and complex problem-solving.

Customer Service Representative | Procore Technologies | Carpinteria, CA (Remote)

10/2022 - 08/2023

- Managed overnight technical operations, independently resolving an average of 80 complex technical inquiries per shift to maintain platform reliability.
- Utilized enterprise-grade systems including Salesforce and Workday to optimize data workflows.
- Collaborated directly with engineering teams to isolate, document, and patch recurring product vulnerabilities.

Education, certification or licenses

Clayton Ridge K12 Online Academy | Clayton Ridge, IA
High school diploma

Completion date: 06/2015

Knowledge-Centered Support (KCS) Principles | Elkhorn, NE
Technical certificate

Completion date: 04/2017

Via Help Desk Institute (HDI)

Job-related training

Training Title: ChatGPT Prompt Engineering for Developers
Organization: DeepLearning.ai

Completion date: 06/2025

Professional publications

Title: *Lifeline Protocol: Sustaining the Mission When the Network Fails*

Author: Dalton Casto

Publication: Medium

Date of Publication: July 10, 2026

Title: *Beyond The Bunker: Rebranding Survival for the Modern Household*

Author: Dalton Casto

Publication: Medium

Date of Publication: January 9, 2026

Title: *The Neighborhood Revolution: How AI Could Rebuild Local Community*

Author: Dalton Casto

Publication: Medium

Date of Publication: August 17, 2025

Title: *Want to Journey Down the Rabbit Hole? Humans, AI, and the Ethics Simulation*

Author: Dalton Casto

Publication: Medium

Date of Publication: August 16, 2025

Technical Toolkit & Skills

AI & Rapid Prototyping

- **LLM Orchestration:** Google AI Studio, Vertex AI, Gemini, and comprehensive fluency across all major LLM ecosystems
- **AI-Assisted Development:** Cursor, Replit Core, and AI-assisted "Vibe Coding"
- **Advanced Prompting:** Prompt Engineering and Human-in-the-Loop Validation

Development & Architecture

- **Frontend & UI/UX:** Next.js, Tailwind CSS, Responsive Design
- **Backend & Data:** Python, Firebase Studio, JSON Schemas
- **System Design:** 0-to-1 Product Architecture, Offline-First Data Structures, Automated Workflows
- **Adaptability:** Creative Generalist with rapid technological adaptation and problem-solving skills

Deep Tech & Advanced Systems

- **Quantum Simulation:** PennyLane Framework, Quantum Machine Learning
- **Edge Communications:** LoRa Mesh Networks, Ultra-Wideband (UWB)
- **Risk & Analytics:** Anomaly Detection, Geospatial Intelligence (TechINT)

Creative & Design

- **Visual Assets:** Brand Architecture, Canva Pro, UI/UX Prototyping