

Current Zeng

Hardware QA Engineer

SDET

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Senior QA Engineer with 7+ years in software and hardware testing across web apps, APIs, and SaaS platforms. Skilled in automation frameworks, test planning, troubleshooting, and release quality for cloud and on-prem systems. Experienced with Cursor, Codex, Python, Java, Playwright, Selenium, Sahi, SQL, Jenkins, and Linux.

CORE SKILLS

SDET & Automation

Playwright Selenium
Test Automation Frameworks
Sahi Migration QA Tooling
Regression Automation

API & SaaS Testing

Postman REST Assured
JSON Validation SaaS Platform Testing

Language & Scripting

Python TypeScript JavaScript
Java SQL React Next.js

Hardware & Embedded QA

Embedded Systems Testing
Hardware Test Automation
Firmware Validation PCB Testing
Web-Based Test Tools

Systems, CI & Cloud

Linux Jenkins Vitest Supabase
Vercel Cloud & On-Prem Systems

QA Leadership

Test Planning Release Quality
QA Mentorship Cross-Functional QA

WORKING EXPERIENCE

Senior Software and Hardware QA Engineer SDET | June 2019 - Present

Vecima Network Inc. -Vecima Networks – Nero Global Tracking | Burnaby, BC

Experience Summary

- Led QA and automation efforts for SaaS-based telematics and web platforms, including front-end, API, and embedded systems testing. Migrated automation from Sahi to Playwright and developed web-based tools to automate hardware validation and remote diagnostics.

Key Achievements

- Migrated automation from Sahi to Playwright, reducing dependency on licensed tooling and improving long-term maintainability.
- Made automation more accessible across the team by standardizing workflows and designing internal tools with intuitive UI.
- Led testing of SaaS web applications, front-end UI, and APIs, ensuring usability, performance, integration consistency, and reliable release quality.
- Enabled automated hardware testing and remote diagnostics across QA, Dev, and CE teams.
- Mentored co-ops and junior QA engineers, improving automation practices, technical troubleshooting, and knowledge sharing across the team.

Jr. Electronic Engineer | May 2018 – Apr 2019

Neil Squire Society | Burnaby, BC

Experience Summary

- Designed and developed assistive technology hardware, including microcontroller-based devices, custom PCBs, and Arduino C firmware for proximity-based and sip-and-puff interfaces. Collaborated with mechanical engineers to build functional, user-focused products and created an internal component library to streamline PCB design workflows.

PROFESSIONAL PROJECTS

Reindeer Education Website & Visit Booking System

Role: Full-Stack Web Developer

Stack: Next.js, React, TypeScript, Tailwind CSS, Resend, Vitest, Vercel

- Built a responsive school website with program pages, faculty profiles, galleries, and visit booking.
- Created reusable TypeScript/Tailwind components and content-driven routing for easy site updates.
- Implemented visit requests with validation, spam protection, UUID idempotency, and Resend emails.
- Added Vitest tests for form validation, email generation, API errors, and production config checks.

Bazi Atlas iOS App

Role: Full-Stack Mobile Developer

Stack: React Native, Expo, TypeScript, Swift, Supabase, RevenueCat, SQLite, MMKV, WidgetKit

- Built a bilingual React Native/Expo iOS app for BaZi chart analysis, saved records, comparison, learning, and knowledge lookup.
- Engineered a TypeScript BaZi engine for true solar time, Four Pillars, Ten Gods, Wuxing, Shen Sha, and transit analysis.
- Integrated Supabase backup, Apple sign-in, RevenueCat purchases, SQLite city search, MMKV storage, deep links, and iOS widgets.
- Designed modular Expo architecture with shared UI, theme, localization, validation scripts, and 28 domain-focused test files.

LEADERSHIP & VOLUNTEER

Co-Founder & Director | FCMS | Vancouver, BC | 2021 – Present

Co-founded FCMS, a non-profit supporting independent musicians through community-building, performance opportunities, and artist-focused programming. Directed 6 large-scale events with 100–700 attendees, managing planning, scheduling, sponsor relations, volunteer teams, budgets, technical production, and live sound under tight constraints. Recently led FCMS On Set, a 12-video live performance project documenting local artists.