

MARCO MATEO HOPE

Design Engineer

marcohope.com | linkedin.com/in/marco-hope

EDUCATION

York University, Lassonde School of Engineering

Sept 2022 - Present

Bachelor of Engineering (B.Eng.), Software Engineering (Hons.)

SKILLS

Design: Figma, User Interface (UI) and User Experience (UX) design, design systems, prototyping, motion design, Spline (3D), web accessibility (WCAG 2.1 AA)

Frontend: TypeScript, JavaScript, React, Next.js, Tailwind CSS, GSAP, ScrollTrigger, HTML, CSS

Backend & Systems: Node.js, PostgreSQL, Python, C++, Electron, OAuth, REST Application Programming Interfaces (APIs)

Testing & Quality: Playwright, Lighthouse Continuous Integration (CI), Git, GitHub

AI Tooling: Claude Code, Cursor, directing AI coding agents, Large Language Model (LLM) evaluations, whisper.cpp

DESIGN ENGINEERING EXPERIENCE

Co-Founder & Chief Technology Officer (CTO), Halix

Mar 2026 - Present

- Co-founded Halix and built the product: a Slack app that briefs account managers before each client meeting, tracks what was promised, and flags upcoming renewals. TypeScript, Next.js, Node.js, PostgreSQL.
- Designed the marketing site and product workspace in Figma on a token-based design system, then built both in Next.js and Tailwind CSS.
- Connected 6 CRM, calendar, and analytics platforms so client data is in one place before a meeting.
- Set up multi-tenant data isolation enforced at the database level, with OAuth sign-in and queued background jobs.
- Wrote the LLM briefing pipeline with structured output validation and automated evaluations. If a generation fails, a fallback template still sends the briefing.

Software Engineer Intern, Deeds Leisure

Jan 2026 - Mar 2026

- Cut manual prospecting time by ~75% with a desktop lead-generation tool that covers 25 Ontario cities and 43 business categories.
- Designed the UI in Figma and built it as an Electron front-end on a ~1,000-line Python scraper (DuckDuckGo Search, BeautifulSoup, regex).
- Packaged it as .dmg and .exe installers so a non-technical sales team could run it on Mac and Windows.

UX/UI Design & Digital Marketing Intern, Minoa Home

Oct 2024 - May 2025

- Compared UX flows and UI consistency across competitor Shopify storefronts, and made the Figma assets for Klaviyo newsletter campaigns.
- Raised organic traffic ~13% with on-page Search Engine Optimization (SEO) using SEMRush and Google Search Console.

DESIGN ENGINEERING PROJECTS

Honey Notes, Local-First Meeting Assistant | *Electron, TypeScript, C++, whisper.cpp*

2026

- Built a desktop meeting assistant for macOS and Windows that records microphone and system audio as 2 separate streams, transcribes on the machine, and writes a summary when asked.
- Wrote native audio capture with Core Audio on macOS and WASAPI loopback on Windows. Because the streams are separate, it knows who spoke without a diarization model.
- All recordings and transcripts stay on-device. Directed and reviewed a 553-test automated suite.

Personal Portfolio & Interaction Lab, marcohope.com | *Next.js, React, TypeScript, GSAP, Playwright*

2026

- Designed and built a portfolio with interactive 3D scenes in Spline, scroll-driven animation in GSAP, and 6 UI components documented with source code and accessibility notes.
- Every animation has a reduced-motion and reduced-transparency version, plus keyboard navigation, focus management, and a no-JavaScript fallback.
- Builds fail in Playwright and Lighthouse CI if accessibility, SEO, or best-practice scores drop below 95.

The 6ix Aesthetics, Med-Spa Website (Concept Build) | *Next.js, React, TypeScript, Tailwind CSS, GSAP*

2026

- Designed and built a 15-route static site around one goal, booking a consultation. Includes treatment pages, an interactive clinic map, and a validated contact form.
- Built a motion system with 4 parallax depth levels and reduced-motion support. Meets WCAG 2.1 AA and scores 98 Lighthouse performance on desktop.

ADDITIONAL EXPERIENCE & ACHIEVEMENTS

- Content Creator, YouTube (Neotea), since Feb 2024: grew 2 channels to 12.5M+ views and 14K+ subscribers. Thumbnails I designed average a 5% click-through rate (CTR).
- York Engineering Competition: 2nd Place Junior Design (2023), 3rd Place Senior Design (2024). Roborama finalist, top 6 of ~30.
- Certifications: AI-Powered Software and System Design, DeepLearning.AI (2026); AI for App Deployment, Google (2026).