Vivienne Hnin

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Education

UNC Chapel Hill — Chapel Hill, NC
B.A. Computer Science, Minors in Data Science & Neuroscience — *Expected May 2027*

Technical Skills

Languages: C/C++, Java, Python, JavaScript
Human Languages: English & Burmese (native), French & Arikanese (elementary)
Frameworks & Tools: React, Node.js, FastAPI, Git, OpenCV, MediaPipe, SQL

Projects

Mars Rover Simulation — Autonomous Navigation System
– Built autonomous path-planning engine (A*, Dijkstra) in C++ for obstacle-aware navigation on a discretized grid.
– Designed modular environment, planning, and visualization architecture to accelerate iteration and debugging.
– Implemented real-time React visualization for demo-ready simulation and clear system introspection.

XM-477 Thrust-Vector VTOL Drone — Embedded Control Software (Ongoing)
– Developing state-driven flight control logic coordinating hover, transition, and forward-flight modes.
– Applying closed-loop feedback control using sensor data to support stable actuation under real-world constraints.

Additional Projects: Gesture-Controlled Photobooth (OpenCV), Image-to-ASCII Lyric Video Generator (Python), Logo-to-Hologram Converter (HackNCState 2026), Full-Stack Student Government Website.

Experience

Kenan-Flagler Business School — Aug 2025 – Present
IT Apprentice — *Chapel Hill, NC*

– Resolved routing bottlenecks in internal IT systems, improving reliability for 7,900+ users during peak instructional hours.
– Diagnosed recurring A/V, software, and network issues across classrooms and offices, reducing downtime during live instruction.
– Standardized troubleshooting documentation and escalation workflows, improving response consistency across the IT support team.

MindUnite — Student-Run Startup — Jan 2025 – Present
Software Developer — *Chapel Hill, NC*

– Shipped React-based frontend features using Tailwind CSS, improving UI responsiveness in a fast-paced startup environment.
– Collaborated with designers and backend contributors to iterate on features based on user feedback and product requirements.

BeReal — Social Media Platform — Nov 2025 – Dec 2025
Product Management Extern — *Chapel Hill, NC*

– Conducted A/B testing and competitive benchmarking (Snapchat, Instagram) to evaluate onboarding friction, translating behavioral insights from 300+ user data points into prioritized feature recommendations.

Success Admissions–Largest Education Agency in Southeast Asia — Feb 2023 – Aug 2023
Partnership Associate — *Yangon, Burma*

– Coordinated and negotiated partnerships with international school boards across four countries, integrating enrollment data and institutional requirements to secure 3+ long-term agreements.

Nawarat Autoparts– Autoparts Company — Aug 2021 – Aug 2024
Product Management Intern — *Yangon, Burma*

– Developed a regional go-to-market strategy using sales analysis and workshop demand modeling, while designing and validating monsoon-resistant packaging through material testing and failure analysis, increasing channel sales by 239% and reducing transit breakage by 31%.