SIDDHARTH YENAMANDRA

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EDUCATION

Stanford University: Sept 2026 – June 2030

B.S. Computer Science (intended) · Class of 2030 · Stanford, CA

Coursework: CS 106B Programming Abstractions (C++), CS 103 Mathematical Foundations of Computing

PROJECTS

eitri — AI hardware design suite (eitri.io)

- Built a suite of AI agents that design hardware across five domains (mechanical CAD, wire harnesses, mechanisms, pneumatics, and Arduino firmware), plus a gated workspace that designs all five in one project with cross-domain consistency checks.
- Agents write parametric models that must pass deterministic checks they can't delete (holes, wall thickness, collisions, mass); users edit in a Fusion-style browser editor and the agent picks up from their changes. Beat Claude Code 22/22 to 20/22 on a CAD benchmark.
- Open-sourced the core and run a hosted multi-user version at eitri.io (GitHub OAuth, sandboxed builds, metered usage); exports STEP/STL, drawings, BOMs, and cut lists.

Ride Ready — voice-first medical transportation eligibility tool · Speech-to-text, LLM, Supabase

Winner, Hack for Social Impact (Seattle) · built with Hopelink · June 2026 – Present

- Won an eight-hour hackathon with a tool that lets riders establish non-emergency medical transportation eligibility by speaking instead of filling in a form, built for elderly riders and people with disabilities who abandon forms after one error. Supports roughly 57 languages.
- Built the backend on a three-student volunteer team working with Hopelink, a Washington nonprofit: the speech to LLM to speech pipeline, and the rider profile store partner transport agencies query in the field format their intake systems expect.
- Awarded $11K in prizes to build it with Hopelink. Now in user testing with Hopelink clients, and on track to replace their legacy Find a Ride site (~15,000 visits/year) by 2028–29.

Automate — native macOS app for running Claude Code agents on a schedule

- Built a native SwiftUI app (~12K lines of Swift) that drives the Claude Code CLI over streaming JSON: chat threads per code folder, each optionally in its own git worktree, and "loops," agent jobs defined in markdown files that run on a schedule or when the Mac wakes.
- Loops do the safe part on their own and text me for approval on the rest over iMessage or Telegram. A shell pre-check skips runs when nothing changed, and a loop file edited to gain risky permissions switches off until reviewed. Runs my internship search daily.

Focus Guard — native macOS menu-bar application

- Built a menu-bar app that holds a typed session goal, reads the frontmost application and the active browser tab URL, and surfaces an undismissable panel replaying that goal when attention drifts elsewhere.
- Designed it deliberately as a soft blocker after hard blockers proved trivial to disable: it cannot stop you, it makes leaving the task a conscious decision.
- Use it daily; extending it into a session gate that triggers on unlock, wake, and return from idle.

MusicPlayer — unified Spotify and YouTube Music player for macOS

- Built a native macOS player presenting one library across Spotify and YouTube Music, for a Telugu film-music collection where the version I want often exists only as a YouTube upload. Each song row carries a Spotify URI, a YouTube video id, or both, and a preferred-source field decides what plays.
- Plays by remote-controlling installed apps rather than streaming: Spotify over Apple Events with no Premium requirement, YouTube Music by injecting JavaScript into the Chrome PWA player object. Both sit behind one Player protocol, so the queue controller does not change with the service.
- Schedules the next track from duration minus position minus a lookahead, so the play call is in flight before the current one ends. Every unofficial-API dependency is walled into a Python sidecar over loopback, so a break in YouTube's private search API stops search and nothing else.

EXPERIENCE

Stanford Student Space Initiative — Satellites Team, Avionics

Sept 2026 – Present

- Own the avionics for Janus's solar panel deployment system: the electronics that trigger/verify solar panel deployment in orbit

Pantheon Prep — Founding Engineer of Artemis

June – Aug 2026; *Cofounder and CTO on the Y Combinator application for Artemis, which ranked in the top 10% of applicants*

- Built Artemis, a warm-intro pathfinder using web scraping and LLM orchestration.

SKILLS

Swift, Python, JavaScript, Java, C++, SwiftUI, SwiftData, AppKit, Supabase, SQLite, Git, HTML/CSS, Netlify