Saidev Dhal

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Summary

Founder and engineer in physical AI: robots as fully local, autonomous AI agents. First author of a preprint on vision-language-action policies on edge CPUs (submitted to IEEE). Wrote an 8 MB Rust inference engine.

Education

Galgotias University — Greater Noida, India
Bachelor of Science (Hons. with Research) in Computer Science — *Aug 2025 – May 2029*

Publication

When Does Asynchronous Action Chunking Help? Latency, Precision and Stalls for VLAs on Edge CPUs

- **S. Dhal**, V. Pathak, S. Pandey, N. Ranjan. Preprint, Oct 2026, submitted to IEEE. openhorizon.so/research
- Closed-form model of robot stalls under sync and async chunking; Raspberry Pi 5 measurements match it **within 1 point**.
- Fewer stalls, not more success: **4/30** vs **14/30** on LIBERO ($p = 0.006$). 8-bit weights cut a chunk from **11.9 to 3.3 s**.

Experience

Founder — Jun 2026 – Present
OpenHorizon Labs, a robotics research company — *New Delhi, India*

- Research how robots learn from people, remember mistakes and act safely, built on **1 year** of prior research.
- **BotCortex**: teach a robot by typing. Skills run on the robot at **20 Hz** with **zero model calls**, within fixed bounds.
- **Sapient**: Rust inference engine; LLM, speech, vision in one **8 MB** binary, no Python or CUDA. **27.7 tokens/s** on Jetson.
- Two profiling fixes: Llama-1B on a Pi 5 from **1.3 to 8.3 tokens/s**; peak memory on a 16 GB Mac from **14.7 to 3.6 GB**.

Def-Space Tech Intern — Dec 2025 – Jan 2026
Bharat Space Education Research Centre (BSERC) — *Remote*

- Selected for the **DEF-SPACE Winter Internship**: **2 months** of R&D in AI systems, embedded tech and autonomy.

Technical Lead Intern — Jan 2025 – Sep 2025
Indian Institute of Technology Madras — *Chennai, India*

- Led a **6-member team** for **9 months** building **NextCarbon**, a carbon credits marketplace, under the IITM CNDE lab.
- Architected and deployed **Solana smart contracts** for carbon credit tokenisation and on-chain verification.

Community Engagement Intern — Apr 2024 – Jun 2024
Ellenox — *Hyderabad, India*

- Ran hackathons and technical support, and managed a Discord community of **2,000+** members.

Founder & Developer — Apr 2020 – Dec 2021
Sputnik, a Discord moderation bot — *Remote*

- Built a moderation bot with **100+** commands; scaled it to **3,000+ servers** and **60,000+ users**.

Projects

Annex | *Rust, QUIC, TLS 1.3, Swift, C#* — Oct 2026 – Present

- Second display for Mac, Windows, Linux: **QUIC** video with FEC, TLS 1.3 fallback, SPAKE2 pairing. **850+ downloads**.

EditMax | *Swift, TypeScript, MCP* — Nov 2026

- Native macOS video editor (multicam, colour, captions) that Claude Code, Codex and Cursor drive over **MCP**.

CodeMax | *TypeScript* — Oct 2026

- One terminal for **6 coding agents**; at a usage limit the next resumes the same task. **2,100+ npm downloads**.

Prexo AI | *Turborepo, Next.js, Hono.js, Bun, PostgreSQL, RAG, AI SDK* — Jun 2025 – Present

- AI agents for sales and support on free tiers. **2 npm packages** with **2,500+ downloads**; 16 GitHub stars.

x0-GPT | *Next.js, TypeScript, Redis, Vector DB, PostgreSQL* — Jul 2024 – Aug 2024

- Chat with any link or PDF. **300+ users in 2 days**, **40 GitHub stars**; sold the source code to **2 US founders**.

Talks

Intro To Physical AI | *workshop, Greater Noida. Rated **4.4/5** by **38 attendees*** — Sep 2026
Prexo AI: Agents Demo Day | *online* — Sep 2025

Technical Skills

Languages: Rust, TypeScript, JavaScript, Python, Swift, C, SQL (Postgres), Go, Kotlin
Robotics and ML: VLA policies (SmolVLA), LIBERO, on-device inference, Jetson AGX Thor, Raspberry Pi 5, Arduino, ESP32
Frameworks and tools: Next.js, React, React Native, Hono.js, Node.js, Bun, Docker, Git, Google Cloud Platform