

Naman Siddheshwar

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EDUCATION & SKILLS

BASIS Independent Silicon Valley

San Jose, California

Expected May 2027

GPA: 4.0 unweighted · 4.8 weighted

SAT: 1590/1600 (790 Math, 800 English) · **Programming:** Python, C++, Java, JavaScript · **Tools:** Node.js, MongoDB, NumPy

TECHNICAL & RESEARCH EXPERIENCE

STEAMCoach — Founder & Lead Developer

2023–Present

- Founded an AI-powered STEM practice platform with Science Bowl simulation, text-to-speech, buzzer practice, and learner analytics, used by students, nonprofits, and local PTAs.
- Designed a solution-centric automatic question generation pipeline for complex STEM and Olympiad problems; submitted research to WAIE.

Arrcus Inc. — Software Engineering Intern

Summer 2026

- Developed CLI Composer, an MCP-based agentic pipeline that generates command-line interfaces from YANG models in a shared production networking codebase.

Independent Music Technology / ML — Researcher & Developer

2024–Present

- Developing a recommender system for older listeners and cognitive engagement using music embeddings, similarity modeling, and DSP-based benchmarks.
- Built a real-time sustain-pedal visualizer using microphone audio, harmonic decay, resonance, and spectral flux to support piano pedagogy.

Algoverse — AI Researcher

Summer 2026

- Investigated LLM reasoning, designed an experimental evaluation pipeline, and coauthored a paper submitted to a NeurIPS workshop.

ENGINEERING & ROBOTICS

VEX Robotics Team — Programming Lead

2023–Present

- Developed C++ autonomous routines with PID control, motion profiling, and sensor integration; helped the team reach the VEX U.S. Open division final.

MIT Beaver Works — Build a CubeSat Challenge

2025–Present

- Placed fifth of approximately 80 teams; developed lunar-dust imaging algorithms and evaluated sensor noise and system-design tradeoffs.

Penn Engineering Summer Academy — Robotics

Summer 2026

- Built an ESP32-controlled robotic piano using solenoids and servos, integrating software, electronics, and mechanics.

LEADERSHIP, TEACHING & SERVICE

BASIS Science Bowl — MS President/Mentor; HS Chemistry Lead

2024–Present

Lead practices and build prep tools; mentored the middle-school team to third at regionals and advised a national-qualifying You Be the Chemist team.

Oclef — Junior Piano Instructor

2025–Present

Teach younger pianists and prepare students for Certificate of Merit performance and music-theory exams.

Memory-Care Concerts — Volunteer Pianist

2023–Present

MIT Build a CubeSat Club — Founder & President

2026–Present

MUSIC & SELECTED HONORS

Composer & Pianist

2014–Present

Composed and conducted an original piano quartet with the San Jose Youth Symphony Orchestra; third place in a statewide composition competition.

Honors: National Merit Semifinalist · AIME Qualifier · USACO Silver · ACSL Finalist · VEX U.S. Open Division Finalist · three-time AP Scholar with Distinction