Said Mohaddes Sadeqi

Engineer, *founder*, *writer*

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SUMMARY

Robotics, software, and semiconductor engineer who builds assistive technology for blind and visually impaired people. Founder and President of Third Eye Worldwide. Researcher at the Computer-Enabled Abilities Laboratory, Columbia University.

RESEARCH INTERESTS

Human computer interaction and accessibility. Wearable and haptic assistive technology. Non-visual interaction. Spatial perception and navigation for blind and visually impaired people. Research exclusion of the Global South.

EDUCATION

St. Cloud State University, B.S. Software Engineering. Senior capstone SE 490 and SE 491. Expected December 2026

Gomal University, Pakistan

Herat University, Afghanistan. Early university credit taken during high school.

TOEFL 105

RESEARCH

Researcher, Computer-Enabled Abilities Laboratory (CEAL), Columbia University, Manhattan, New York City 2026 to present

EXPERIENCE

Founder and President, Third Eye Worldwide

Nonprofit building technology, community, and research for blind and visually impaired people. Registered in Oregon; federal 501(c)(3) status pending.

Semiconductor Manufacturing Specialist, Intel (through Manpower), Hillsboro, Oregon March 2025 to 2026

Certified on ten wafer processing toolsets. Handled wafers daily with visibility across the full process, from procedure to reporting.

Senior Robotics and Automation Engineer, Cyborg Tech

Robotics, embedded systems, and industrial automation across more than twenty projects in smart agriculture, manufacturing maintenance, and humanoid robotics.

SELECTED PROJECTS

- **Third Eye Kit.** Wearable that turns distance into vibration for blind and visually impaired people. First generation in use since 2022: tens built and given out by Third Eye Worldwide in Afghanistan and Turkey, hundreds more built by users from the open design. Second generation in build, using the wearer's phone as its brain, aiming for $100 or less. TEKNOFEST 2022 finalist, Best Presentation award.
- **Quantum Powerhouse** (quantum.sadeqi.me). VQE suite for H_2, zero noise extrapolation toolkit, OpenQASM to Amazon Braket transpiler, interactive Bloch sphere, 23 quantum games.
- **Cyborg.** Personal AI, trained by me and running on my own GPU.
- **Sadeqi Story.** Studio that trains GPUs to generate video, with its own API.
- **SafeGrows.** AI automation platform for local service businesses.

WRITING AND PUBLICATIONS

- Sadeqi, S. M. *Concluded Today, Forgotten Tomorrow: The Forgetting Mechanism and the Compounding Exclusion of the Global South from Research.* Working paper, in preparation for journal submission.
- Sadeqi, S. M. *The Third Eye.* Memoir, in progress, about 60,000 words.
- Introductory technical guides to Arduino and to Python.
- Sufi poetry in Persian, under the pen name Masti.

HONORS

- TEKNOFEST 2022, finalist, Best Presentation award.

SKILLS

Hardware: robotics, embedded systems, microcontrollers (RP2040, RP2350), sensors, haptics. **Software:** Python, web, Docker, self hosting. **AI:** local language models, GPU training. **Quantum:** variational algorithms, error mitigation. **Manufacturing:** ten wafer processing toolsets.

LANGUAGES

English, Dari (native), Farsi, Turkish