

Alexander Khalitov

CELL (917)817-5342 • E-MAIL alex@alexsource.com • WEBSITE resume.alexsource.com • [Download as PDF](#)

SKILLS

- Experienced with SystemVerilog and RTL Design of digital systems
- Proficient in Python and Python Libraries - Pandas, NumPy, and SciPy
- Intermediate experience with C++, C, and Javascript
- Over 10 years of experience with installing, administering, customizing and maintaining multiple Linux workstations (Linux/x86-64) and embedded devices (Linux/ARM) for personal and server use, as well as PowerPC and m68k
- Windows OS administration experience- from Windows 98 to Windows 11

WORK AND INTERNSHIP EXPERIENCE

Sandisk Corporation, Milpitas, California

Intern, Advanced Technology Group, In-Person – Summer 2025

- Used Atomic-Layer Deposition to research the growth of oxide semiconductor films
- Trained on SEM, Ellipsometer, 4-probe resistivity meter – to verify film properties
- Worked on improving inventory-tracking software written in Python

Purdue STARS, West Lafayette, Indiana

Fellow, Design Track, In-Person – Summer 2024

- Participant in program to design, test, tape-out, and manufacture a custom ASIC
- Developer on a 5-person team to make a single-cycle 32-bit RISC-V processor

Hyphen Group, Switzerland

Intern Programmer, remote - Summer 2022

- Worked in Data Science with external vendor data
- Documented over 40 datasets and APIs, and set up tools and software for interns

SUCCESSFUL HARDWARE/ SOFTWARE/ NETWORKING PROJECTS

- Designed a functional Single-Cycle RISC-V ASIC as part of a team
- Volunteer hardware and software developer to make free 3D-Printed prosthetics
- Provided hosting for several public-facing online services using Linux servers
- Restored multiple vintage computers and laptops
- Learned 6502 assembly and used it to write applications for a Commodore 64

EDUCATION AND AWARDS

Computer Engineering BSEE – Purdue University, West Lafayette, Indiana

Fall 2023 – present – expected graduation Spring 2027

- Dean's List all semesters, 3.84 GPA – Relevant coursework includes Electronics Fundamentals I/II, Data Structures, Microprocessor Systems, Digital Systems Design
- Member of Eta Kappa Nu and Alpha Lambda Delta Phi Eta Sigma honors societies

Other

- Finalist, IBM Master the Mainframe Hackathon 2019, Bergen Community College
- HS: 4.02 Cumulative GPA, Highest Honor Roll, National Honor Society

HOBBIES AND INTERESTS

- Linux User Group member and Open-Source contributor
- Tinkering with all sorts of machines - robotics, Electronics
- Vintage Computers and Consoles, Cars; Founder of small preservation society
- History and Geography