

Konstantin Vasilyev

Computer Engineer

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Profiles

🔄 [TheDenast](#)

📄 [denast](#)

Skills

C, C++

Python

Linux

Git

LaTeX

Docker

x86 ASM

Nix

Networks

Electronics

Experience

Amplified Industries

April 2024 - Present

Hardware Engineering Intern

Boston, MA

🔗 <https://amplified.industries/>

- **[Python, Linux, Electronics]** Designed a touchscreen kiosk-style device used for pressure sensor QC
- **[C, Python]** Developed an implementation of oil pump sequence peak finding algorithm to be deployed on microcontroller
- **[Python, SQL]** Maintained an internal application that guides user through manufacturing process while logging important information in the backend

Acoustic Wells

Sep - Dec 2022

Engineering Intern

Sommerville, MA

- **[Python]** Developed a complex python script used in pre-deployment QC of main company product
- **[Electronics]** Performed everyday engineering tasks including device assembly, soldering, broken device debugging

Education

Northeastern University

December 2023

Computer Engineering

Bachelor of Science

3.260 GPA

Electives: Computer Architecture & Systems, Software Security, Wireless communication Circuits

Other: Algorithms, Linear Systems, Networks, Electromagnetics, Discrete Structures, Calculus, Differential Equations, Linear Algebra

Projects

Chorded Text-to-Speech Device

Dec 2023

Graduation Project

In a team of six, designed a portable text-to-speech device, allowing quick communication for speech impaired individuals using chorded multidirectional button input

C++, Linux, Git

NixOS System Config

(Ongoing)

🔗 <https://github.com/TheDenast/nixos-config>

- Maintaining and daily-driving a declarative Linux configuration using Nix & NixOS
- Managing package dependencies, system services, and user environments through version-controlled configurations.

Nix, Linux

Simple Linux Shell

Nov 2023

🔗 <https://github.com/TheDenast/denast-shell>

Wrote a Linux shell, capable of program execution, sequencing, dir navigation, file i/o

C, Linux

Self-Hosted Infrastructure

(Ongoing)

- Managing a set of debian-based servers running Docker containers with various services
- Networking done through combination of Tailscale & Nginx, moderate hardening w/ 2fa administrative access

Docker, System Administration, Networks