

Konstantin Vasilyev

Computer Engineer

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Profiles

 [denast](#)

 [TheDenast](#)

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 Jul - 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

7MHz Radio

May 2023

Assembled, aligned and tuned a radio kit allowing for Morse transmission up to 40m @7MHz

Electronics, Wireless

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

Elastic 2D Collision Simulation

May 2021

<https://denast.dev/projects/collision/>

Designed a 2D collision simulator with button controls, sounds, shape, and velocity customization using C++ without any graphics libraries

C++, FPGA