Konstantin Vasilyev

Junior Electrical & Computer Engineer

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Profiles

in denast ⏽ TheDenast

Experience

Amplified Industries
Hardware Engineering Intern
🔗 https://amplified.industries/

April 2024 - Present
Boston, MA

- Designed a touchscreen kiosk-style device used for pressure sensor QC
- Assisted in implementation of oil well pump sequence measurement in firmware

Acoustic Wells
Engineering Intern

Sep - Dec 2022
Sommerville, MA

- Designed pre-deployment testing sequence for main company product
- Wrote a complex testing script in Python to go with said testing sequence
- Performed everyday engineering tasks including device assembly, soldering, broken device debugging

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Education

Northeastern University
Computer Engineering
3.260 GPA

December 2023
Bachelor of Science

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

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

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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

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

7MHz Radio May 2023

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

Electronics, Wireless

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

Skills

C, C++	Python	x86 ASM
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Linux	Git	LaTeX
● ● ● ● ●	● ● ● ● ○	● ● ● ● ○

Languages

English	Russian	French	Chinese
● ● ● ● ●	● ● ● ● ●	● ● ○ ○ ○	● ○ ○ ○ ○