Konstantin Vasilyev denast@proton.me
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Education

Northeastern University, Boston, MA December 2023
Bachelor of Science in Computer Engineering **GPA: 3.260**

Engineering Electives: Wireless Communication Circuits, Computer Architecture, Computer Systems, Software Security
Engineering Fundamentals: Digital Design and Computer Organization, Engineering Algorithms, Linear Systems, Electronics, Networks, Electromagnetics, Embedded Design, Circuits & Signals;
Other: Discrete Structures, Physics II, Calculus III, Differential Equations & Linear Argebra

College International Beau Soleil, Switzerland | IB Diploma June 2019

Computer & Machining Skills

Applications: SolidWorks, AutoCAD, MATLAB, Intel Quartus, LTSpice, PSpice, Microsoft Excel
Programming: C++, C, Python, x86 ASM
Digital Design: Verilog, MIPS
Misc: Linux, Bash, Git, LaTeX, Soldering, Lab equipment familiarity

Working Experience

[Acoustic Wells, Sommerville, Sep-Dec 2022] – [**Python, Electric Circuits**]
Role: *Hardware Engineer Intern*

- Designed pre-deployment testing sequence for main company product
- Wrote a complex testing script in Python to go with said testing sequence. Both are still used daily as of May 2023
- Performed everyday engineering tasks including device assembly, soldering, broken device debugging

Projects

[Boston, December 2023] – [**Graduation Project, C++, Bash, Git, Linux**]

- In a team of six, designed a portable text-to-speech device, allowing quick communication for speech impaired individuals using chorded multidirectional button input
- Oversaw the text-to-speech part of the project, forked and deployed an OSS tts library, changing and adapting it to project needs
- Through bash scripting & Systemd, automated project operation within a Linux system

[**C, Linux**] - Wrote a Linux shell, capable of program execution, sequencing, dir navigation, file i/o
[**Electric Circuits, Wireless Communications**] - Assembled, aligned and tuned a radio kit allowing for Morse transmission up to 40m @7MHz
[Electric Circuits, MATLAB] - Constructed a basic ECG Machine utilizing both analog and digital filtering
[C++] - Designed a 2D collision simulator with button controls, sounds, shape, and velocity customization using C++ without any graphics libraries.

Languages: Russian *(native),* English *(fluent),* French *(little fluency),* Chinese *(beginner)*
Hobbies: Miniature painting, Linux, Guitar, Fitness, Magic the Gathering, Biking