Batya Vishnepolsky

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Education

Honors College at University of Nevada, Las Vegas	Fall 2023
Bachelor of Science in Electrical Engineering	GPA: 3.81

Technical Skills

C++, SystemVerilog, RISC-V, LTspice, Kicad, Dip Trace, Cadence, Visual Studio, SystemVerilog, Quartus II, ModelSim, MATLAB, Python

Work Experience

Undergraduate Research Assistant   10/2021 -

Advisor: Dr. R. Jacob Baker, UNLV ECE

- Solder SMD and through hole parts onto PCBs.
- Packaging chips using wire bonding techniques.
- 3D printing using Cadence software.
- Temperature chips tested for NASA contract on the development of Tiled Silicon

Guidance, Navigation, & Control Satellite Engineer   5/2022 -

UNLV RebelSat

- Design and analysis of satellite attitude determination and control systems.
- Develop Helmholtz cage and test procedures for 3U CubeSat
- Design detumbling simulations on MATLAB
- Implement and delegate tasks to other members of the GNC team.

Tutor/ TA   01/2017 -

- Tutor math ranging from middle school curriculum through differential equations.
- Tutor high school chemistry on normal and AP level. College chemistry equivalent to UNLV courses CHEM 103, 121, and 122.
- Tutor electrical and computer engineering classes. Equivalent to UNLV courses CPE 100, 200, EE 220, and 221.
- TA for various math and engineering classes at UNLV.

Projects

• BNO080 PCB design and implementation.	Fall 2021
• Minesweeper on C++	Fall 2021
• IR detector circuit on PCB	Spring 2022
• Card guessing game implemented on Altera DE2-115 board with Quartus II	Spring 2022
• Raspberry Pi Pico Python script for automated temperature testing.	Summer 2022
• Level 1 high power rocket (in progress).	Fall 2022

Honors and Activities

• **Languages:** English (native), Russian (native)	
• Dean's list academic distinction	2020 - 2022
• Mitzi and Johnny Hughes Honors Scholarship	2020 - 2024
• Kenneth R. Site Electrical and Computer Engineering Scholarship	2022 – 2023
• Hyperloop Nevada member	
• SEDS UNLV member	