

Seeking full time employment as a computer engineer, Starting August 2023.

Work Experience

Vanteon Corporation: Electrical Engineering Co-op

Pittsford, NY

Aug. '21 - Dec. '21

- Improved RF loopback testing for Vanteon's SDR platform through automation
 - ★ Overhauled Matlab script for characterization and graphing of loopback test data.
 - ★ Wrote C code controlling SDR test menu system, integrated with Matlab script for automatic data collection.
 - ★ Designed PCB in Altium to speed up switching RF filters during loopback testing.
- Fabricated and assembled display system for customer demonstration.

FloDesign Sonics:

Wilbraham, MA

Jun. '21 - Aug. '21

Electronics Team Intern

- Integrated external API into prototype electronic component inventory system

Jun. '20 - Aug. '20

Research and Development Intern

- Developed system to image ultrasonic standing waves using Schlieren imaging with pulsed laser illumination

Product Development Intern

May '19 - Aug. '19

- Worked on acoustic filtration system for biopharmaceutical applications
 - ★ Used SolidWorks to create parts, assemblies, and drawings
 - ★ Created set of formal work instructions for manufacturing transducers

Research and Development Intern

Jun. '18 - Aug. '18

- Conducted tests of acoustic filtration technology and collected data.
 - Designed and assembled custom computer, upgraded older computers.
 - Prototyped improvements to product using CAD and 3D printing.
 - Presented findings and future goals weekly to a panel of managers and other interns
- Jun. '17 - Nov. '17

Education

Rochester Institute of Technology

Rochester, NY

Bachelor of Science: Computer Engineering
GPA: 3.31 - Dean's List: Spring '22, Spring '20

Expected May '23

Skills

- **Languages:** C, Python, VHDL, Matlab, Arm Assembly, \LaTeX , Bash, Java
- **Tools:** GNU/Linux environment, ROS2, Git, ModelSim, Xilinx Vivado, Altium, CAD
- **Technical:** Debugging, Troubleshooting, Soldering, Software Development
- **Professional Skills:** Presentations, Agile Software Collaboration

Projects

Small Scale Autonomous Race Car

Embedded C

Aug. - Dec. '22

- Created firmware for small autonomous racing vehicle, controlled by TI MSP432 ARM-based microcontroller.
- Using Line scan camera, wrote PID and state-based control system to quickly navigate a randomly designed track in a timed race.

Pipelined MIPS Processor

VHDL

Jan. - May '22

- Created and tested each stage of a MIPS processor with VHDL
- Combined each stage in the pipeline and simulated using ModelSim
- Tested overall functionality by calculating a portion of the Fibonacci sequence.
- Experimentally found the fastest clock frequency at which the processor could operate.

Organizations

- **Phi Delta Theta:** New York Eta Chapter. Active October '21 - May '23