

Phaedra Parsons

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OBJECTIVE

Computer and Electrical Engineering Technology student seeking a co-op or internship to gain engineering skills. Interested in both hardware and software development opportunities. Available May – December 2026.

EDUCATION

Bachelor of Science in Computer Engineering Technology

May '28

Rochester Institute of Technology | Rochester, NY

- **Awards:** CET Dean's List Spring and Fall 2025, Alfred L. and Ruby C. Davis Award for Outstanding Campus Leadership
- **Coursework:** Computer Science I and II, Circuits I and II with Lab, Electronic Devices, Digital Systems Design, Microcontroller Systems, Introduction to Digital and Microcontroller Systems, Probability & Statistics, Multivariable Calculus & Differential Equations, Fundamentals of Audio Engineering, Modern Audio Production

SKILLS

- **Software:** Visual Studio C++, Microsoft Office Suite, Code Composer Studio, Linux (Debian, Ubuntu, Fedora)
- **Languages:** Python, C/C++, Java, HTML, VHDL
- **Interpersonal:** Leadership, Teamwork, Creative, Organization, Reliability
- **Hardware:** Quartus Prime, Vivado, ModelSim, Altera Cyclone II FPGA, Xilinx Artix 7 FPGA, TI MSP432 Micocontroller, Arduino, ESP-32, Small Signal Diodes, BJTs, MOSFETs, JFETs, and Operational Amplifiers
- **Lab Equipment:** Soldering Iron, Oscilloscope, Multi-meter, Curve Tracer, and Function Generator

EMPLOYMENT

Teaching Assistant

Jan '26 - Present

RIT, Department of Electrical and Computer Engineering Technology | Rochester, NY

- Supported instruction for **Circuits I**, covering **DC analysis, Ohm's Law, Kirchoff's Laws, Inductors and Capacitors, and Thevenin/Norton equivalents**,
- Assisted students during lectures and labs with **analog circuit analysis, device modeling, and engineering problem-solving techniques**
- Led **exam review sessions and study workshops**, reinforcing concepts in **linear circuits, semiconductor physics, and electronic components**
- **Graded homework, and lab reports**, providing detailed technical feedback and collaborating with faculty to **develop and refine industry-aligned instructional materials**

Student Manager

Oct '24 - Jan '26

RIT Dining, Cantina & Grille | Rochester, NY

- Oversee daily operations, manage staff, handle closing procedures, and ensure high-quality customer service
- Promoted to Student Manager after demonstrating strong leadership and organizational skills (January 2025).

LABS AND PROJECTS

Personal Project: Vacuum Tube Class A Audio Amp

Jan '25

- Modified an existing Class A Audio Amp Design to accept a 6L6GC Power Pentode
- Designed and built the chassis mounting using the RIT SHED Machine Shop to cut aluminum and steel parts
- 3D Printed a socket support for the 6L6GC
- Wired the amp together with point to point wiring using 18 gauge copper wire

Personal Project: Personal Website

Oct '24

- Designed and implemented a personal website to host a resume and basic contact info (<https://sirobivan.org/index.html>)
- Created an HTML design with an NGINX web server running on Raspbian Debian on a Raspberry Pi 3B+

Digital and Microcontroller Systems: Software State Machine in C and Schematic Capture

Apr '25

- Programmed and tested a software state machine in C to control an FPGA combination lock from a TI Microcontroller
- Engineered the SSM to track 3 user input switches from the FPGA, utilizing Quartus Block Diagrams in Schematic Capture to operate seven segment displays and indicate 'PASS' upon correct code entry or 'FAIL' otherwise