Education

University of Tennessee, Knoxville GPA: 3.68
Bachelor of Science in Electrical Engineering and Physics *May 2020*

Walter's State Community College GPA: 3.58
Associate of Science in Mechanical Engineering *Dec. 2017*

Experience

University of Tennessee, Knoxville
Undergraduate Physics Tutor Jan. 2018–May 2020
  Used problem solving techniques and organization to help students.
  Centralized information to educated students in physics fundamentals.

Oak Ridge National Laboratory
Intern, Accelerator Physics Division Jun. 2019–Aug. 2019
  Surpassed expectations developing computational models.
  Advanced the modeling capabilities for the PyOrbit code base.

Intern, Energy & Transportation Science Division Jun. 2018–Aug. 2018
  Audited industrial process heating methods for potential improvements.
  Developed cooperation and teamwork skills through large team projects.

Walter's State Community College
General Education Tutor Aug. 2017–Dec. 2017
  Authored detailed resources for a wide range of courses.
  Demonstrated patience, attention to detail, and elegant communication.

Skills

Programming
  C++ ◇ Python ◇ MatLab ◇ VHDL ◇ RISC-V Assembly ◇ Java ◇ JavaScript ◇ Fortran ◇ Swift

Software
  ADS (keysight) ◇ CST ◇ Altium ◇ Spack ◇ LabView ◇ Simulink ◇ QUARC ◇ SPICE ◇ GitHub

Design
  RF: Gain Blocks ◇ Oscillators ◇ LNAs ◇ Filters
  Antennas: Dipole ◇ Patch ◇ Loop ◇ Phase Array
  Amplifiers: Feedback ◇ Wide-band ◇ Audio

Languages
  English ◇ Spanish

Projects – Find explanations and results on my website

- PyOrbit Contributions
- *Gauntlet* OOP Codesample
- PIC Code
- QuadTree Implementation
- Electric Bass Guitar
- Audio Pre-amp
- Wooden Furniture
- RF Oscillator
- A* Maze Solver

Volunteer Experience

Centro Hispano - Knoxville, TN
  Completed educational activities with children during their parents' classes.

Boys & Girls Club - Seymour, TN
  Mentored and tutored children.

Interests

Plasma Research ◇ Accelerator Research ◇ Computational Modeling ◇ RF Design ◇ Materials Research