Evan Gzesh

Electrical Engineer With Passion for Understanding Core Concepts in Math and Science
Radford, VA
-Email me on Indeed: http://www.indeed.com/r/Evan-Gzesh/a8d53c55b2efc6ba

Authorized to work in the US for any employer

Work Experience

Power Electronics Engineer
Moog, Aspen Motion - Radford, VA
June 2021 to Present

- Designed power-factor correction, EMI, and motor drive circuitry
- Employed Python and LTSPICE to simulate and analyze circuits
- Sourced electronic components, performed PCB design, and coordinated product development with coworkers
- Utilized lab equipment to analyze, diagnose, and troubleshoot high voltage electronics

Teaching Assistant for Advanced Power Systems Analysis
University of Pittsburgh, Department of Electrical & Computer Engineering - Pittsburgh, PA
January 2021 to Present

- Held weekly office hours to help students complete assignments and understand concepts.
- Graded homework assignments.

Undergraduate Researcher
University of Pittsburgh, Mascaro Center for Sustainable Innovation - Pittsburgh, PA
May 2020 to July 2020

- Created a model of a power distribution line using the COMSOL Multiphysics AC/DC module
- Validated simulation results analytically using MATLAB
- Wrote a research paper and delivered a presentation detailing my research, and assessed COMSOL's potential use for future power system studies

Teaching Assistant for Electromagnetics
University of Pittsburgh, Department of Electrical & Computer Engineering - Pittsburgh, PA
January 2020 to April 2020

- Assisted with in-class projects and activities.
- Held weekly office hours to help students complete assignments and understand concepts.
- Graded homework assignments for a roster of 28 students
- Designed a project that used COMSOL Multiphysics to teach key concepts in electromagnetism

Engineering Tutor
University of Pittsburgh - Pittsburgh, PA
September 2019 to April 2020

- Assisted engineering students with undergraduate electrical engineering courses
- Communicated complex and abstract concepts to students with differing learning styles

Undergraduate Researcher

University of Pittsburgh, Dr. Feng Xiong's Lab - Pittsburgh, PA

May 2019 to December 2019

• Designed a circuit implementing an IC switch to aid in testing experimental synaptic device
• Devised and performed pulse tests utilizing lab equipment such as oscilloscopes, function generators, and power supplies

Education

B.S. in Electrical Engineering

University of Pittsburgh - Pittsburgh, PA

April 2021

Skills

• MATLAB (3 years)
• Simulink (1 year)
• COMSOL Multiphysics (1 year)
• Excel (3 years)
• Laboratory Experience (3 years)
• PSPICE (1 year)
• Experience working with students
• Python (1 year)
• Tutoring (2 years)
• Altium (Less than 1 year)

Assessments

Mechanical knowledge — Expert

December 2020

Understanding and applying mechanical concepts and processes
Full results: [Expert](#)

Advanced mechanical knowledge — Expert

November 2021

Understanding and applying mechanical concepts and processes
Full results: [Expert](#)

Numerical reasoning skills — Highly Proficient

November 2021

Quickly and accurately performing basic mathematical operations, recognizing numerical sequences, and interpreting graphs
Full results: [Highly Proficient](#)