# Riad Fikani

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#### **SUMMARY**

I'm a student at Purdue University studying Electrical Engineering. I am interested in circuit design, embedded systems, and autonomous vehicles. I am currently seeking an internship for summer 2022 where I'll be able to use my skills and knowledge to work on an innovative and challenging product.

# **EDUCATION**

Bachelor of Science in Electrical & Computer Engineering.

Minor in Mathematics.

Purdue University • West Lafayette, IN • 2024

#### **ENGINEERING PROJECTS**

## Analog audio equalizer with volume control

Purdue ECE • May 2021

- -Designed an analog audio equalizer with volume control on Spice that meets specific requirements.
- -Built the analog audio equalizer with volume control using a breadboard and the Analog Discovery 2.
- -Integrated the circuit with an amplifier and speaker.
- -Documented all my work in a final report that provides a full description of the project including design.

## **Synchronous sequential machine**

Purdue ECE • Fall 2021

- -Derived the next-state equations, then designed the circuit to meet specific requirements.
- -Built all three parts, the Next-state Logic, the State Memory, and the Output Logic.
- -Simulated a coded Moore Machine using SystemVerilog on an FPGA.

## Discrete inverting operational amplifier

Purdue ECE • Mars 2022

- -Utilized KiCad to design an inverting operational amplifier with a gain of -1.5.
- -Simulated the op-amp using LTspice.
- -Built the op-amp incrementally, starting with the current mirror, then differential amplifier, followed by the common-source amplifier and source follower.

# RELEVANT COURSEWORK

ECE 20001/20007: Linear circuit analysis & lab 1.

ECE 264: Advanced C programming. (Spring 2022).

ECE 20002/20008: Differential circuit analysis & lab 2. (Spring 2022)

CS 159: Fundamentals of C programming.

#### INVOLVEMENT

#### Member

Institute of Electrical and Electronics Engineers- IEEEE • August 2019 - present

3D Printing Club (3DPC) • August 2021 – present

Boiler Blockchain • August 2021 - present

## **SKILLS**

**Technical Skills:** Python, C programming, MATLAB(Simulink), Autodesk AutoCAD, Spice, SystemVerilog, KiCad, EAGLE, LTspice, PSpice, SolidWorks, Oscilloscope, Soldering iron, Network Analyzer, Excel (macros, pivot tables), Altium Designer, Linux/Unix shell scripting.

Industry Knowledge: Project Management, Engineering Design.

Soft Skills: Resourcefulness, Storytelling, Multitasking, Collaboration, Public Speaking.

#### Languages

Fluent: English.

Native: French and Arabic.

Portfolio: https://www.notion.so/riadfikani/Hello-there7201fbe916b6466d854c9955adbe1a93