# WILLIE HEDRICK JR

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## SUMMARY

Motivated computer engineer with a strong interest in digital design and desire to learn more about technology.

## EDUCATION

Mississippi State University          Expected Graduation: 2024          Starkville, Mississippi

Bachelor's Degree in Computer Engineering          GPA: 3.2

Math Minor

RELEVANT COURSES:

- Intro to Computer Programming w/ Python
- Intermediate Computer Programming w/ C++
- Data Communications and Computer Networks
- Embedded Systems w/ C
- Digital Systems Design w/ Verilog and SystemVerilog
- Advanced Circuits
- Microprocessors w/ C and ASM

## TECHNICAL SKILLS

- Fundamental understanding of digital design and verification
- Familiarity with Xilinx Vivado Suite
- Ability to write simple programs in Python, C, and C++
- Familiarity with hardware description languages: Verilog, VHDL, and SystemVerilog
- Scripting experience in Bash
- Effective verbal and written communication skills

## PROJECTS

Light Sensitive Automatic Blinds (C++)

- Automatic blinds that opened and closed using a DC motor, Arduino Uno, and data given by sensor and data modules: Real-Time Clock (RTC) and Light Dependent Resistors (LDR).

12W Audio Amplifier

- Designed using Cadence Allegro tools, PCB printed by JLCPCB, components sourced from Mouser Electronics, and implemented manually.

Exchange Rate Console Application (Python)

- Developed a console application using a currency exchange rate API to convert USD to 161 different currencies.

## Activities

- Track & Field Discus Throwing          (2015 – present)
- Powerlifting          (2019 – present)
- MSU CSGO E-Sports Team          (2021 – 2022)