Isaiah Hajabolhassan

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Education

Bachelors of Science in Computer and Electrical Engineering **Expected Graduation May 2026**
Oklahoma State University *Stillwater, OK*

Relevant Coursework

- Network Analysis
- Data Structures
- Computer-Based Systems
- Digital Logic Design

Experience

Oklahoma State University **January 2022 – May 2024**
IT Help Desk Shift Lead/IT Technical Support Specialist *Stillwater, OK*

- Developed programs through Power Automated to complete tasks that would usually be done by a person
- Provided guidance and mentorship to junior phone agents, offering assistance, answering questions, and fostering their professional growth.
- Implemented rigorous quality control measures, meticulously reviewing tickets to ensure compliance with established standards, thereby maintaining a high level of service quality.

NPDC **May 2024 – Current**
Electrical Engineering Intern *Stillwater, OK*

- Designed PCB's using KiCad for custom electrical projects, ensuring proper functionality through rigorous design processes
- Programmed and installed PLC's to automate industrial systems for midsize manufactures using stepper motors and VFD's with HMI's as interfaces
- Worked with inventors to develop prototypes for their products while educating them on the product design and development process

Projects

Off Shore Drill Plug Automation: | *Python, OpenCV, VBuilder* **Summer 2024**

- Automated the assembling of plugs for off shore oil rig drills using a collection of PLC's to control pneumatic pumps and motors to place glue and corks into plugs
- Used OpenCV for computer vision to detect the holes in the plug and used CAN communication between Raspberry pi and PLC's to give exact coordinates on where to place the corks

Impact Drill for Power Lines: | *Kicad* **Summer 2024**

- Helped design and implement remote use impact drills using Bluetooth for linemen on up to 500KV Power Lines
- Used a Faraday's Cage to protect the Circuit boards from the EMF emitted from Power Lines

Energy Renewal Gasification Process: | *Click PLC programming* **Summer 2024 - Current**

- A $750,000 dollar waste gasifiction and green energy generation system for the city of Stillwater
- Programmed a HMI to interface with the sensors and VFD's to control temperature, humidity, and air flow speed autonomously

Desktop Resin 3D Printer: | *Python, AutoDesk Fusion* **Spring 2024**

- Assembled a a personal resin 3D printer using several online open-source schematics and BOM's
- Created and modified CAD files to create the support and frame for the 3d printer
- Prototyped a working build then soldered multiple complex components onto a PCB

Technical Skills

Languages/Software: Python, Java, C/C++, LaTeX, SystemVerilog, HTML, CSS, MatLab, Pspice, Kicad, AutoDesk Fusion, Power Automate
Certifications: Dell Client Foundations, Dell PowerEdge Corrective Maintenance