

OBJECTIVE

Seeking an internship/co-op in the fields of electrical engineering and embedded systems.

EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Electrical Engineering with Minor in Computer Science

Champaign - Urbana, IL

Dec 2022

GPA: 3.50/4.00

- Related Coursework: Digital Systems Laboratory, Data Structures, Analog/Digital Signal Processing

WORK EXPERIENCE

SIEMENS HEALTHINEERS

Electrical Engineering Intern

Jan 2022 –

- Built a new version of the SPECT detector test board
- Designed the I2C communication protocol between FPGAs and ADCs
- Augmented the I2C FPGA master codebase to be able to read and write in 2 bytes of data

STARZ ELECTRONICS

Electrical Engineering Intern – Research and Development

Jun 2021 – Aug 2021

- Worked on the development of a smart thermostat using an STM32H735G-DK development board
- I used CubeMX, CubeIDE and TouchGFX to connect the sensors, program the chip and the user interface.

STARZ ELECTRONICS

Automation and Embedded Systems Engineer Intern – Research Team

Jun 2020 – Aug 2020

- Programmed Raspberry PI based medical respirator to monitor and stabilize air pressure and oxygen levels
- Built dashboards displaying detailed machine data to be used by doctors for patient care. (Node-Red)
- Developed wireless communication for Remote Terminal Units (RTUs) to control remote machines via “LoRa”
- Designed and prototyped main circuit board for the RTUs based on NXP processor

CAMPUS LEADERSHIP & INVOLVMENTS

MEN’S SOCCER TEAM

NJCAA Division I

Champaign, IL

Aug 2017 – May 2019

- Student-Athlete full scholarship
- Received M-WAC all Conference Academic Team personal award
- Committed 30 hours per week to training, meetings, travel, and competitions

MATH CLUB PRESIDENT

Aug 2019 – May 2020

- Directed and supervised overall operations and staff activities of the club
- Attended and participated in various events as club’s representative

MEMBER OF IEEE AT THE UNIVERSITY OF ILLINOIS

Aug 2020

PEER TUTOR

Aug 2019 – Dec 2019

- Tutored fellow undergraduate students in mathematics, physics, and computer science courses

SKILLS & HONORS

HONORS: Dean’s List

TECHNICAL: Soldering, C, C++, Python, and System Verilog

LANGUAGE: English, French, and Arabic (Fully Trilingual)