

Mohamed Gesalla

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Objective

To obtain an electrical engineering internship position for summer 2019 that allows me to apply my skills and develop new skills.

Education

ELECTRICAL ENGINEERING | IOWA STATE UNIVERSITY, AMES, IOWA

Bachelor of science in Electrical Engineering.

Anticipated December 2019

GPA 3.55/4.00

Professional Experience

UNITED TECHNOLOGIES CORPORATION (UTC- CARRIER), SYRACUSE, NY | JUNE 2018-AUGUST 2018

Innovation and Research Electrical Engineer

- Tested sensors and replaced fault sensors for commercial rooftop units
- Deployed and monitored IOT devices that provide to gain real time access to field data and quick diagnose of system failures
- Data analysis of proprietary technology test data

IOWA STATE UNIVERSITY, AMES, IA | FEBRUARY 2018-PRESENT

Undergraduate Research Assistant/McNair Scholar

- Learning and utilizing neural networks along with deep learning for image recognition application.
- Researching intensive subjects on backpropagation algorithm, supervised systems and gradient descent as an optimization procedure.
- Writing Python codes for machine learning application.

BAKER GROUP, ANKENY, IA | MAY 2017-AUGUST 2017

Project Manager Intern

- Assisted lead project manager on a \$3.7 million project to renovate Principal Financial Group headquarters.
- Coordinated with subcontractors to update control panels, HVAC, mechanical equipment and lighting on the 9-story building.
- Purchased products, planned and field supervised to ensure successful completion of tasks.
- Scheduled and organized technicians and electricians and assigned them their daily tasks.

Projects Experience

DIGITAL LOGIC PROJECT, KEY PAD LOCK DESIGN TEAM LEADER FALL 2017

- Wrote Verilog code.
- Used block designs to create a functional door lock that unlocks a door after 4-digit password has been entered using push buttons.
- Organized and directed team meetings, lead goal setting activities, and coordinated assignments to optimize group effectiveness.

Skills

- **Software and hardware:** Python, MATLAB/ Simulink, C, PSS/E, LINUX and Microsoft, FPGA, VLSI design, Verilog
- **Soft Skills:** Leadership, communication, problem solving and teamwork
- **Language:** Fluency in English & Arabic (US Citizen)

Extracurricular activities

- ECSEL scholars Program, Peer Mentor August 2018– current
- Vermeer International Leadership Program, Member March 2018- current
- National Society of Black Engineers (NSBE), Member October 2016 – current
- Oakridge Neighborhood, Des Moines, Iowa, Interpreter January 2015 - current