

Sadiyah Salim Bhuria

4020 New Broad Circle
Orlando, FL 32765

407-724-2757 • sadiyahsalim@knights.ucf.edu
<https://www.linkedin.com/in/sadiyah-bhuria-6a18501a1/>

EDUCATION

University of Central Florida, Orlando, FL
Master of Science, Computer Science

Jan 2021
Expected Graduation: Dec 2022

University of Central Florida, Orlando, FL
Bachelor of Science, Computer Engineering
GPA: 3.68/4.00

Graduated: Dec 2020

TECHNICAL SKILLS

Programming Languages : C, C++, Java, Python, JavaScript, PHP, MySQL and Verilog

Software Tools : NetBeans, Microsoft Visual Studio, Android Studio, Xilinx Vivado and MARS

Operating Systems : Linux and Windows

MAJOR COURSES

Artificial Intelligence

Computer Science I, II

Digital Systems

Introduction to C Programming

Computer Graphics

Embedded Systems

Object Orientated Programming

Operating Systems

Computer Organization

Processes Object Oriented Software Development

Robot Vision

Computer Architecture

Programming Languages

Machine Learning

Electrical Networks

EXPERIENCE

University of Central Florida, Orlando, FL
Graduate Research Assistant

Jan 2021 –Present

- Developing an automated micro-credentialing software using Python language scripts via a one-time tagging step of the questions within the digitized assessments utilized by STEM courses at UCF.

University of Central Florida, Orlando, FL
Undergraduate Learning Assistant (ULA)

Sep 2020 –Dec 2020

- Learning Assistant for Computer Organization (EEL 38017C)
- Assisted students with learning the course material by means of discussion taking place during lab time.
- Coordinated with the lead instructor for the course and graduate teaching assistants

PROJECTS

Senior Design Project: Garbage & Recycle Automated Disposal (GRAD)

- Designed an automated trash robot that takes the trash to the curb and it has a solar powered battery, an Arduino MCU, a PCB that is integrated with the motor drivers, a Wi-Fi module, few sensors for obstacle avoidance and for line following.
- Created an Android mobile application using Android Studio for the robot trash so that the user can control it.

Calculation of Large Fibonacci numbers using Linked List

- Implemented a program in C to store and calculate the sum of large Fibonacci numbers.
- Used dynamic memory management, pointers, struct and linked list to store large Fibonacci numbers.

Text Prediction using Trees

- Implemented a program in C using trees which predicts next word in a sentence.
- Achieved string insertion in tree and text prediction in linear time.

Frequency Distribution Calculation using Dynamic Memory

- Implemented a program in C to store the frequency distribution of scores in exam.
- Utilized dynamic memory management, pointers and struct.

Area Lighting using REGL

- Implemented realistic lighting using area light sources over an environment in WebGL using REGL.

Virtual Memory Simulator

- Implemented a program in C that simulates the Page Table, TLB and the Frame Table in the virtual memory
- Utilized write-back scheme with dirty-bit optimization

Data Encryption using MIPS

- Implemented data encryption using MIPS instructions. Used techniques such as bit masking, stacks and arrays in memory.

Event Scheduler

- Created website using LAMP (Linux, Apache, MySQL, and PHP) stack that allows users to schedule custom events and hobbies at a specific date and time and provides reminders for the events.
- Created an Android mobile application for the same using Android Studio.

Automatic Safety Storage Circuit

- Designed a circuit that measures temperature and turns on fan and red LED when it's hot, and a buzzer and blue LED when it's cold.
- Implemented this circuit using comparator amplifier, temperature sensor, battery, potentiometer, LEDs, diode, buzzer, transistor, resistor, relay and fan.

Electronic Piano Circuit

- Designed a circuit for piano with 5 different tones. Each of the tones required a different frequency.
- Implemented the circuit using LM 324 op amp, LM 386 op amp, potentiometer, resistors, capacitors, speakers and push buttons.

AWARDS & HONORS

- UCF President's Honor Roll – Spring 2020
- UCF Dean's List – Spring 2018, Fall 2018, Spring 2019
- Honor's List- American University of the Middle East, Kuwait (Fall 2015, Spring 2016 & Fall 2016)