SHANE BOLDING

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EDUCATION

B.S. in Computer Engineering
University of West Florida: GPA - 3.22
Aug. 2015 – May 2020

B.S. in Electrical Engineering
University of West Florida: GPA - 3.43
Aug. 2015 – May 2020

PROJECTS

Lego Collecting Robot
C#

Date: Oct. 2019 - Mar. 2020 Location: UWF

· Entered the Southeast IEEE PI Day Competition.
· Built a robot, including the power system, to pick up the most Legos in a specific order in under 3 minutes.
· Accomplished 13 blocks stacked in 3 minutes.
· Unfortunately, the contest was cancelled due to Covid.

Personal Handheld Game System
Python/Solidworks

Date: July 6 - 9, 2020 Location: My Home

· Utilized a Raspberry Pi Zero and a 2.2 inch screen to create the system.
· Soldered a safe battery system to ensure fast charging and a battery life of approximately 6 hours.

Home Security Camera
Python/Solidworks

Date: July 11 Location: My Home

· Designed a self-contained power supply system for it.
· Utilized Python and a machine learning algorithm library to watch my doorway and send me a picture through email when it detected a human at the door.
· Designed and printed a black casing to hold the raspberry pi and camera.

Chebyshev Filter
Electronics

Date: Fall 2019 Location: UWF

· Created using Chebyshev filter table and other physics functions.
· Used this idea of stacking filters on one another in my signals and systems class.

LANGUAGES

C	●●●●●
C++	●●●●●
Python	●●●○○
Java	●●●○○
Assembly	●●●○○

EXPERIENCE

Tutor
University of West Florida

Date: Aug. 2019 - May 2020 Location: Pensacola, Fl

· Help countless students understand Computer Science, Computer Engineering, and Electrical Engineering that they may not have understood the first time.
· Worked more than the 10 hours I was paid a week to ensure the students that came to me for help got the help they needed.

MORE PROJECTS

Clock based on 555 timer
Digital Logic

Date: Spring 2018 Location: UWF

· Assembled a clock that counted the time using JK flip flop chips and utilized seven segment displays to display the time.
· Utilized a truth table and Karnaugh map to create this project.

Programs to Demonstrate Multi-Threading
C/C++

Date: Spring 2019 Location: UWF

· Utilized threading to do computationally complex problems in a fraction of the time using a single thread program.
· Learned about protection of race conditions when threading using a data structure called a Semaphore.
· Constructed throughout multiple projects the understanding of Multi-Threading.