

# 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

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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.