

Wyatt Hansen

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SUMMARY

Computer Engineering graduate with an interest and passion in Embedded Software Engineering.
Seeking Full-Time employment.

EDUCATION

Texas A&M University, College Station, Texas

December 2021

Bachelor of Science in Computer Engineering

Minor in Cyber Security

Lone Star University, Kingwood, Texas

May 2017

Associate of Arts

WORK EXPERIENCES

Genesis Dimensions, Houston, Texas

Summers of 2017, 2020, and 2021

Engineering Intern

- Successfully installed and implemented Taiga, an open-source Agile project management tool, on in-house servers, enhancing project coordination and management.
- Assisted in the manufacturing and integration of industrial control panels for a Kuka Robot and a Material Flow Control System

Arrington Automation, Houston, Texas

August 2018 – August 2019

Engineering Intern

- Collaborated with a team of engineers to contribute to the design, testing, manufacturing, and integration processes of industrial control panels for control systems.

PROJECTS

Hardware Synchronization System for a Self-Driving Car

- Utilized Arduino to demonstrate synchronization of Radar and Camera sensors through PPS signals received from GPS.
- Engineered a system that collected sensor data, effectively corrected for delays, and facilitated data visualization using ROSpy and RViz for integration into autonomous vehicles.
- Collaborated with a team of five engineering students on a Senior Design project, showcasing strong teamwork and project coordination skills as the Project Lead.

Line Following Robotics

- Designed and developed an autonomous car utilizing a Xilinx BASYS 3 FPGA, 2 DC motors, and Capacitance Sensors, enabling it to autonomously track and follow a 5V current-carrying wire on the floor.
- Collaborated closely with a team of two engineering students to successfully complete this project for my Digital Electronics Class.

Custom RC Car controlled over WiFi

- Successfully implementing motor control for four DC motors through the generation of PWM signals via a TI Launchpad CC3200-LAUNCHXL, enabling wireless control over WiFi.
- Contributed to the manufacturing of a mechanical frame using a 3D printer.
- Collaborated effectively with a team of four engineering students for the completion of the project for my Foundations of Engineering 112 Class.

SKILLS

Technical Skills: C, C++, Python, Linux, Git / GitHub, Agile, CAD, MATLAB, Excel