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, RTOS, FreeRTOS, Linux, Git / GitHub, Agile, CAD, MATLAB, Excel