

# Jesse Alvarez

Webster, TX | 832-315-0734 | jalvare025@gmail.com

## Profile

Have developed a stronger understanding of computers and technology throughout college education. Certain group projects granted our team the practice to share a work load consisting of research, documenting, drafting code, designing, and connecting hardware or electrical components. Experienced in hospitality for a total of six years and strong soft skills including: team management, time management, sales, and money transactions.

## Education

### Bachelor of Science in Computer Engineering Technology

May 2021

University of Houston – College of Technology

GPA: 3.0

Relevant Courses: Microprocessor Architecture, Embedded Systems, Computer Networks, Object-Oriented Application Programming

## Work Experience

### Server, Current location: *Perry's and Sons Market and Grill*

11/2016 - Present

- Wrote down orders as accurately as possible and sent them to the kitchen.
- Translated between kitchen and front of house from Spanish to English.
- Was responsible for completing side work to prepare the following shift.

### Cashier, *Cinemark 18*

07/2015 - 09/2016

- Basic customer service while handling money.
- Tended to guest's needs while maintaining workflow responsibilities.
- Time management was important throughout the busy days

## Course Projects

### NAE Grand Challenge for Engineering

May 2017

- Scientific Discovery - Rat dissection table for NASA.
- Engineering team management consisted of creating a poster board that displayed our research in improving a design from NASA of a rat dissection table.
- We had our presentation on display at the convention and presented our findings to the public.

### Semiconductor device and circuit final lab project

December 2019

- 1st place - Automatic Irrigation System using moisture and light sensors in conjunction with water pumps to add nutrients.
- We developed a design using Multisim and created a presentation which included a demo. Also, we created a full report on our project that went into full detail.
- Construction of the circuit first included a breadboard which was important for prototyping but we created a PCB for our final demo.

### Senior Project

June 2021

- 2nd place - Beyond Energy, algae bioreactor.
- Lab research was important for creating a design and we visited a lab at UH Sugarland to meet with Dr. Balan to study his research.
- A pH system was created using a pH sensor that would urge feedback from water pumps to add the necessary acid or base to the solution.
- Temperature regulation was done by using sensors that would turn on either a fan or heater depending on the case to remain at ideal temperature.

## Technical Skills

- C++ language: Software – Visual Studios
- Designing software: Multisim, LabVIEW, MATLAB, SOLIDWORKS, AutoCAD
- Office Apps: Word, PowerPoint, Excel, Outlook
- Tools: Multimeter, Oscilloscope, Power Supply, FPGA, Arduino
- Computer Hardware
- Electrical Components
- Soft skills: Time management, Troubleshooting, Public speaking, Leadership
- Languages: English and Spanish