

# HENRY ZHENG

MERIDIAN, MISSISSIPPI 39305 | (646) 975-0096 | HZ215@MSSTATE.EDU

## EDUCATION

### **Bachelor of Science in Computer Engineering**

**December 2024**

Mississippi State University, Starkville, Mississippi

Cumulative GPA: 3.90/4.00

### **Associate of Arts**

**May 2022**

Meridian Community College, Meridian, Mississippi

## WORK EXPERIENCE

### **Manager, O.E.C. Japanese Express, Meridian, MS**

**July 2015 – December 2023**

Handled communication among owners, employees, and producers. Assisted in the acquisition of produce shipments and provided customer service.

### **Academic Tutor, Meridian Community College, Meridian, MS**

**August 2020 – May 2022**

Tutored students in STEM related courses covering Biology, Chemistry, and Calculus.

## TECHNICAL SKILLS

- Programming Languages: Assembly, C, C++, CSS, HTML, Linux, MATLAB, Python, Socket, System Verilog
- Software: Tinkercad, Microsoft Visual Studio, Vivado
- Microsoft Office Products

## PROJECTS

### **Spectroscopic Measurements of Burning Vegetation and Background Sunlight**

- Detected early signs of forest fires through spectroscopic analysis of various materials, specifically focusing on tree leaves, bark, and common flammable elements. Identified unique wavelengths associated with the elements.

### **Ray Tracer Implementation**

- Developed a functional ray tracer from scratch using a combination of OpenGL Mathematics (GLM), Tinyxml, Climg, and standard C++ libraries. Core features included ray-object intersection, Phong-based lighting model, shadows, and materials for fundamental geometric shapes such as triangles, planes, and spheres.

## NOTABLE ACCOMPLISHMENTS

- Vice President of Public Relations for Phi Theta Kappa
- Meridian Community College, The Phil Hardin Foundation Honors College
- Assisted in the recreation of Meridian Community College's Courtyard
- Mississippi State University's League of Legends Esports Team member

## HONORS/AWARDS

- Charles Armstrong Scholarship; Phil Hardin Foundation Scholarship; NASA Community College Aerospace Scholarship

## VOLUNTEERING

- Adopt-a-Highway Trash Pickup
- Organizing donations at the Care Lodge
- Breast Cancer Awareness/Street Strut for Life