

# VICTORIA HONG

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## EDUCATION

**Rutgers University**, New Brunswick, NJ

Expected Graduation: May 2023

**B.S. in Computer Engineering & Minor in Computer Science | 3.5**

- Dean's List (Spring 2020)

## PROJECTS

**Human-Following Shopping Cart**

July 2020 – Present

- Conduct research in robotics and autonomous systems with Dr. Jingang Yi to develop a contact-free shopping cart solution to achieve safe shopping at supermarkets
- Use ROS to identify different hand gestures for user operation, Blender to develop 3D models of carts and aisles, and Gazebo to create a realistic simulation of a supermarket for experimentation

**Anomaly Detection Algorithm for Autonomous Driving Vehicles**

March 2020 – May 2020

- Researched with Dr. Dario Pompili to create an algorithm to detect anomalous data in autonomous vehicles
- Utilized Gaussian Mixture Model (GMM) anomaly detection method to sort and classify data in specific categories
- Tested resultant data against Multi-Class LSTM Autoencoder and Multi-task Learning Model and concluded GMM produced the most accurate result that consistently found and sorted all anomalies with test and real data

## EXPERIENCE

**CAMDEN COUNTY TECHNICAL SCHOOL**, Sicklerville, NJ

June 2019 – Present

**Robotics Mentor**

- Mentor three high school robotics teams and teach a total of 100 students about programming and machining
- Spearhead and design the curriculum for annual Girl Scout workshops and STEAM camps for 120+ students

**RUTGERS UNIVERSITY Busch Student Center**, Piscataway, NJ

September 2019 – March 2020

**Operations Assistant**

- Assisted an average of 230 customers a day and organized events by setting up tables and chairs, as well as sound and video equipment

**PHO VOORHEES**, Voorhees, NJ

October 2017 – March 2020

**Waitress**

- Served 190+ customers daily and managed point-of-sales payment systems for seamless transactions
- Proposed and implemented an expansion of the restaurant beverage line that led to a 10% increase in annual sales
- Trained 40% of new employees about expectations, safety procedures, food and drink preparations, and POS system

## LEADERSHIP AND HONORS

- **Fellow, America Needs You** (2020 – Present): Selected as one of 75 first-generation college students in New Jersey to serve in a 2-year career development and leadership training program
- **LSAMP Scholar, Louis Stokes Alliance for Minority Participation Program** (2020 – Present): Selected as one of the 30 students to participate in a research and professional development program at Rutgers University

## SKILLS AND INTERESTS

- **Programming:** Python, MATLAB, HTML, CSS, C++
- **Software:** AutoCAD Inventor, ROS, PyCharm, Jupyter, Gazebo, Overleaf, Blender
- **Machining:** Plasma Cutter, Laser Cutter, CNC Mill, Mill Machine, Lathe Machine
- **Languages:** Vietnamese (native), Spanish (basic)