Victor Chen

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Looking for Summer/Fall 2024 Internship | U.S. Citizen

EDUCATION:

Rochester Institute of Technology | Rochester, New York — **August 2020 - May 2025**
Bachelor of Science in Computer Engineering Technology — **GPA 3.45/4.0**

RELEVANT COURSES:

- Digital Systems Design (VHDL)
- Microcontroller Systems (C)
- Embedded Systems Design (VHDL)
- Digital System Processing (MATLAB)
- Signals/Systems and Transforms (MATLAB)
- Hardware Description Language (VHDL)
- Real Time Operating Systems (C)
- AC/DC Circuits
- Computational Problem Solving I, II (C++)

SKILLS:

- **HARDWARE**: VHDL, FPGA, Quartus, ModelSim, Arduino
- **SOFTWARE:** Visual Studio Code, MATLAB, STM32CubeIDE, Minitab, Code Composer Studio, Quartus Prime, C, C++
- **OTHER:** Oscilloscope, Multi-Meter, Soldering

SCHOOL TECHNICAL PROJECTS:

Breathing Rate Detection System | MATLAB — **April 2023 - May 2023**

- Developed a system in MATLAB with a team to detect the different breathing rates of people potentially afflicted with acute respiratory infection. Used an Arduino Uno microcontroller as well as several filters to cancel out any outside activity to ensure we successfully captured breathing rates that are either less than 12 BPM or 40 BPM.

Car Reservation System | C++ — **August 2022 – November 2022**

- Created a car reservation system through Visual Studio that allowed players to reserve a car seat for their weekly sports tournament based on how many credits they owned. Players were given the option to reserve, view, modify, or delete their reservation from a simple yet effective display screen. Once all reservations were finalized, any person that had not chosen a seat would be auto assigned a seat based on the number of credits they had.

Microcontroller Roomba Robot | C — **January 2022 - May 2022**

- Programmed a robot for a basic everyday task by using the Texas Instrument MSP432 microcontroller. The robot had many different specifications such as Bluetooth control through my phone as well as programmed bumpers to detect when the robot bumped into an object. The motors of the robot were controlled by the length of the PWM signals that were driven to it which allowed me to control the speed as well as the direction it would turn.

Vending Machine Implementation | VHDL — **August 2021 - November 2021**

- Created a vending machine controller on a deo-cv altera board that had different states depending on user inputs such as type of change received. Depending on whichever state the state machine was in; it would allow a drink to be dispensed if certain conditions such as sufficient change had been entered. Otherwise, it would either prompt the user for more change or return all the change if requested.

EXPERIENCE:

Rochester Institute of Technology, Rochester, NY | Student Worker — **August 2020 – May 2021**

- Served over 500 students per night in a fast-paced environment by assisting the head chef in the preparation of dinner meals.
- Assisted with online orders by packaging meals and answering questions regarding allergy and gluten concerns.

Englishtown Auctions, Manalapan, NJ | Sales Associate — **June 2016 – June 2020**

- Engaged in friendly conversations to increase customer satisfaction which allowed me to consistently exceed sales goals by at least 8%.
- Organized eye-catching displays and ensured that merchandise is restocked accordingly.

CLUBS/AWARDS:

- Society of Asian Scientists and Engineers — **August 2023 - Present**
- RIT Presidential Scholar — **June 2020 – Present**