

# Henry Carucci

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## EDUCATION

### Quinnipiac University, Hamden, CT

*Bachelor of Science* expected graduation date TBD

Major: Mechanical Engineering.

Engineering GPA: 3.45; Overall GPA: 3.171 | Dean List: Fall Semester 2021

### QU School of Engineering, Hamden, CT

*Cannon Trajectory Prediction*, Fall Semester 2020 | Class: Computer Aided Design

- **Developed** MATLAB code to accurately predict projectile elevation and range based on target coordinates

*Circuit Design*, Spring Semester 2021 | Class: Introduction to Circuits

- **Designed and built** a functional circuit to power an LED, additional board, and digital clock.
- **Utilized** Pad2Pad, MultiSim, and soldering techniques for efficient circuit creation and testing.

*Solenoid Engine*, Fall Semester 2021 | Class: Mechatronics

- **Led a team** to design and construct a working solenoid engine using Arduino programming.
- **Developed** crankshaft, flywheel, and stand for the solenoids.
- **Programmed** Arduino to control solenoid firing and calculate/display RPM on an LCD screen.

*8x8x8 LED Cube*, Fall Semester 2021 | Class: Mechatronics

- **Created** a visually stunning 8x8x8 LED cube using 512 LEDs.
- **Developed** Arduino code to generate dynamic light displays through precise LED activation.

*Baja Data Acquisition*, Senior Project | Class: Mechanical Engineering Design

- **Implemented** sensors (hall effect, reed switches, strain gauges) to collect real-time data on RPM, speed, fuel level, and load forces.
- **Designed and built** a dashboard to display critical vehicle information to the driver.

## PROFESSIONAL EXPERIENCE

### The Cotocon Group (2021) Internship

Assist buildings adjust to new benchmarking laws that have been placed in New York. Record buildings energy and water consumption, then compile into a portfolio to generate a mandatory letter grade. Collaborated with building management to achieve greenhouse gas emission reduction goals.

## EMPLOYMENT

### Slice of Stamford (2022-2024)

#### Pizza Delivery Driver

- **Met daily delivery quotas** while consistently receiving positive customer feedback
- **Developed strong** multitasking & time management skills, managing multiple deliveries simultaneously.
- **Successfully navigated** various routes in all weather conditions, utilizing GPS to optimize delivery times.

### Keoughs Paint and Hardware (2016-2019) Stamford, CT

- **Head Cashier: Efficiently managed** cash register operations and customer interactions.
- **Floor Manager: Provided exceptional customer service** and supervised store operations.
- **Warehouse/Inventory Specialist: Accurately maintained** inventory records & optimized warehouse organization.

### New York Giants Youth Football Camp (2015) Stamford, Greenwich, New Canaan, Darien, CT

#### Junior Camp Counselor

- **Taught and mentored** children aged 6-9 in proper football techniques and safety protocols.
- **Developed and conducted** engaging drills and activities to foster a positive learning environment.

## SKILLS

**Microsoft Office Suite:** Word, Excel, PowerPoint

**Circuits:** Breadboards, Soldering

**Machine Shop:** Vertical and Horizontal Band Saw, End Mill, Drill Press, Belt Sander, Lathe

**CAD:** SolidWorks, AutoCAD

**Coding:** Arduino, MATLAB

**Mathematics:** Calculus 1-3, Linear Algebra, Differential Equation



