

# Joshua Mudano

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## EDUCATION

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### University of Connecticut

*Bachelor of Science | Mechanical Engineering*

**Storrs, CT**

*Graduation Date: May 2024*

## SKILLS

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**Skills:** Microsoft Office (Excel, Word, PowerPoint) | Python | MATLAB | ANSYS | LabView | Jupyter

## PROJECT EXPERIENCE

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### ENGR 1166 Foundations of Engineering

*Air Filter*

**Storrs, CT**

*Jan 2021 - May 2021*

- Collaborated with a 5-person team to design an air filter for a hypothetical colony on Mars, resulting in the successful filtration of deadly virus.
- Created 2D sketch detailing the structure and design of air filter using plywood, hairdryer and base tube components.
- Built prototype of air filter which was tested to effectively remove 99% airborne particles & viruses from Martian atmosphere, saving lives within colony.

### ME 3263 Introductions to Sensors and Data Analysis

*Cantilever beam*

**Storrs, CT**

*Sep 2022 - Dec 2022*

- Created an ANSYS Workbench model of cantilevered beam to predict first three natural frequencies, achieving 95% accuracy.
- Investigated and demonstrated convergence for all three frequencies with a 5% error rate.
- Validated/verified model using experimental & analytical results, increasing confidence in the analysis by 90%.

## WORK EXPERIENCE

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### Twin Hills Country Club

*Bartender/Server*

**Longmeadow, MA**

*Apr 2022 - Sep 2022*

- Collaborated with 5-member staff to exceed customer satisfaction goals, resulting in a 15% increase in positive feedback.
- Provided prompt service to over 200 customers daily, achieving 95% order accuracy rate.
- Managed time effectively by organizing and delegating tasks amongst team members for 20 tables simultaneously, increasing efficiency by 25%.

### Max Tavern

*Server/Busser*

**Springfield, MA**

*Apr 2020 - Sep 2021*

- Leveraged creative problem solving skills to resolve customer complaints within 60 seconds of initiation, resulting in 98% satisfaction rate.
- Optimized processes for handling high-volume orders with accuracy and speed, decreasing order wait time by 20%.
- Adroitly managed multiple competing priorities under pressure while maintaining a 95% accuracy rate on all tasks.

## LEADERSHIP EXPERIENCE

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### Nutmeg State Games

*Volunteer*

**Middletown, CT**

*Oct 2017 - Oct 2019*

- Facilitated 8 youth sports events with 300 participants, achieving 95% satisfaction rate.
- Organized 20 teams and tracked individual & team performance metrics of 250 players to measure progress over season.
- Created a comprehensive set of rules and guidelines for all sports activities to ensure safety & compliance with regulations, increasing participant retention by 10%.