

# Tafari Kelly

Bloomfield, CT | +1 (860) 416 - 4495 | kellyntafari@gmail.com

## EDUCATION

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**University of Connecticut, Storrs, CT**

*Bachelor of Science, Mechanical Engineering, May 2024*

## SENIOR DESIGN PROJECT

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### **Feasibility of Extending the Range of EV Tractor Trailer Trucks**

*Team Member, August 2023 - Present*

- Explored various strategies to increase the operational range of electric tractors, conducting comprehensive analysis of diverse solar panel technologies and alternative power sources.
- Identified cost-effective methods to enhance tractor performance without compromising quality.
- Utilized simulation to assess the performance of electric tractors under a spectrum of environmental conditions and operational scenarios.

## WORK EXPERIENCE

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**Aerospace Techniques Inc, Middletown, CT**

*Manufacturing Engineering Intern, December 2023 - Present*

- Applied Geometric Dimensioning and Tolerancing (GD&T) principles in the inspection and measurement processes, enhancing precision and accuracy in the assessment of components.
- Operated Coordinate Measuring Machine (CMM) to conduct thorough evaluations and verify that parts met required tolerances, contributing to quality control and assurance processes.
- Performed precise measurements on airplane parts using various tools such as radius gauges and indicators, ensuring compliance with specified tolerances.

**Dairy Farmers of America, New Britain, CT**

*Maintenance & Engineering Intern, May 2023 - August 2023*

- Coordinated with senior engineers to perform preventive maintenance on various machinery, completing 1 inspection per week and reducing unplanned downtime by 20%.
- Preserved and updated equipment records, including repair histories, maintenance schedules, and inventory levels, resulting in a 10% reduction in spare parts inventory costs.
- Supervised the installation of over 30 new machinery such as bearings, motors, valves, and pumps to ensure continuity with engineering specifications and safety protocols.

## SKILLS

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**Drafting:** GD&T, AutoCAD, SolidWorks

**Technical:** Python, MATLAB, ANSYS, LabVIEW

**Hands-on:** Hand Tools, Welding, Electric Work, Drawing

**Language:** English, Spanish, Mandarin

## LEADERSHIP

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**Chinese Language and Culture Club, Storrs, CT**

*Vice President, August 2023 - Present*

- Established and nurtured a strong sense of community within the club, encouraging participation and collaboration among members.
- Developed and delivered engaging presentations to enhance awareness and appreciation of Chinese language and culture.
- Managed the club's finances, overseeing budgeting, expenses, and financial transactions, ensuring the fiscal health and sustainability of the organization.