BRYAN CULLANO

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EDUCATION

New Jersey Institute of Technology *Newark, NJ*
Bachelor of Science, Mechanical Engineering | GPA: 3.96 Sep 2017 – May 2021

- Albert Dorman Honors College, Pi Tau Sigma Honors Society
- Minor: Applied Mathematics

PROJECTS

NJIT Solar Car Development Team Fall 2017 – Current

- Collaborated to determine steering geometry, front and rear suspension geometry, and tire alignments
- Aided in design of battery box ventilation system and box layups of carbon fiber weave with resin

Firefighting Drone Mechanism Fall 2020

- Designed and developed a launcher mechanism with 3 colleagues that can easily mount to a standard F450 drone frame to launch a projectile with an extinguishing agent
- Conducted mass property analysis in SolidWorks to determine location of center of gravity and optimize weight

Jounce Bumper Testing Machine Concept Spring 2020

- Proposed simple ladder logic for PLC to communicate with motorized cross head and anti-rebound system
- Analyzed machine components to determine factors of safety and corrected endurance limits

EXPERIENCE

Stealth Indoor Vertical Farming Venture Jul 2019 – Mar 2020
Engineering Intern / Assistant Project Manager *Greater NYC Area*

- Implemented and tested plumbing systems for critical research and development facility, ensured on-time delivery of an error-free, fully functional plumbing system
- Trained, supervised, and mentored 5 engineering interns, ensuring that all subordinates achieved required technical skills in plumbing and mechanical systems
- Designed and executed mechanical systems to free up 30% of space for other systems

NJIT Electrical & Computer Engineering Department Jun – Jul 2019
Research Assistant *Newark, NJ*

- Collaborated in a cross-functional team of mechanical and computer engineers to simulate 360° view driving using RC cars, cameras, and 3D printed parts designed in Creo
- Created MATLAB program to show multiple landscape view windows of a radial image to be used in LabVIEW

Dunkin' Aug – Dec 2018
Crew Member *Branchburg, NJ*

- Communicated with customers and maintained an organized work area
- Made and delivered orders in a fast-paced environment during peak hours

SKILLS

Computer: Creo (Advanced), SolidWorks (Advanced), Ansys (Intermediate), AutoCAD (Intermediate), Python (Intermediate), HTML & CSS (Intermediate), C/C++ (Basic), MATLAB (Basic), LabVIEW (Basic)

Language: Tagalog (Listening: Intermediate, Speaking: Basic), French (Intermediate)

EXTRACURRICULAR ACTIVITIES

NJIT Solar Car Team | Society of Musical Arts, String Ensemble