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Engaging and detail-oriented mechanical engineer with a big picture mindset, exceptional time management skills, and the capacity to energize a team of professionals by creating a dynamic and innovative team culture.

Qualifications Summary

* Dedicated engineer with the ability to design, develop, and assist with testing all aspects of mechanical components, equipment, and machinery.
* Collaborative team-player with high emotional intelligence and the capacity to work directly with clients on a variety of projects within fast-paced environments.
* Exceptional communicator and change agent with a sharp power of observation, able to diagnose faulty equipment and systems; skilled in making recommendations for improvement.
* Organized professional with a proactive mindset and a strong work ethic, able to prototype, test, and validate mechanical parts and subassemblies; highly skilled and experienced in SolidWorks.
* Authentic and relatable individual with the capacity to work on full assemblies, subassemblies, and single components.
* Inventive and motivated individual with the capacity to deliver impactful solutions to meet static and evolving objectives within fast-paced environments.

# Career Experience

**Roosevelt Island Operating Corporation (RIOC)** |Roosevelt Island, New York

**Maintenance Intern** | May 2019 to August 2019

Exercised sound judgment and discretion while inspecting over 40 fire extinguishers on RIOC facilities.Demonstrated leadership and communication skills by leading and supervising safety inspection of three mechanical rooms in a recreational facility in a team of three professionals.

*Selected Contributions:*

* Ensured flawless execution while managing and supervising island infrastructure including roads, Z-brick, streetlights, and sidewalk repairs.
* Delivered key contributions toward success by performing handyman responsibilities including carpentry and masonry through use of various carpentry and electrical tools.
* Exhibited superior attention to detail while conducting inspections of roads and structures within the island; responded quickly to clients’ questions and concerns.

**Roosevelt Island Operating Corporation (RIOC)** | Roosevelt Island, New York

**Seasonal Employee - Maintenance Department** | June 2018 to August 2018

Gained valuable knowledge in proper use of power tools under a variety of situations; tools included circular saw, electrical drill, and other maintenance tools.

*Selected Contributions:*

* Exhibited exceptional ability to marshal appropriate resources by repairing trip hazards around the island by performing drilling and cementation.
* Reduced system’s energy usage by retrofitting nine street lamppost lights; safely removed and reinstalled lampposts as LED bulbs.

# Projects

**Solar Still using Concave Mirror** | March 2019 to December 2019

Designed a solar still system to purify contaminated water by incorporating concave mirror with motor-driven cable pulley transition to capture sunlight for boiling water; steam was condensed into drinking water.

*Selected Contributions:*

* Demonstrated innovation and capacity to excel by designing and building a frame capable of holding a rotating mirror and designed to follow the movement of the sun.
* Leveraged experience and skill to perform FEA on critical parts for stress and displacement analysis.
* Programmed a pump, sensors, and a motor through use of Arduino in close partnership with other students.
* Established strong foundation for success by leading SolidWorks modeling.

**Design and Manufacturing of a Bicycle Gear Shift System** | March 2019 to May 2019

Exercised detailed analysis and judgment while performing SolidWorks modelling; modelled all parts and placed parts into assembly for computational analysis.

*Selected Contributions:*

* Enhanced opportunities for success by turning parts into CNC computational process through CAD/CAM programming using HSMWorks.
* Maximized productivity and provided vital structure by machining processed materials, which were produced through CNC machining.
* Provided with a third-party derailleur and chain; front and rear sprockets were designed SolidWorks, then CNC machined.
* Exhibited resourcefulness by putting the final prototype together to resemble a bicycle gear shift system.

**FEA of a Channellock** | November 2018 to December 2018

Defined direction that catalyzed coordination by evaluating a solid model design of a Channellock using Finite Element Method in SolidWorks.

*Selected Contributions:*

* Analyzed failure by locating the area of model’s maximum stress.
* Enabled model to resemble a real-life, workable system by running different simulations with different boundary conditions.
* Captured substantial gains in efficiency and productivity by redesigning the model by using sensitivity testing.

# Education

**Bachelor of Engineering, Mechanical Engineering**(3.1 GPA), December 2019

*Relevant Coursework: Computer Methods in Engineering, Fundamentals of Mechatronics, Manufacturing Processes, Computer Aided Drafting, Mechanical Systems Design, Methods of Scientific Research, Thermal System Analysis and Design*

***The City College of New York***, New York, NY

**Professional Proficiencies**

***Certifications:*** CSWA (Mechanical)

***Technical Skills:*** SolidWorks | Finite Element Analysis (FEA) | 3D printing | C++ | MATLAB | Arduino
***Language Proficiency:*** Fluent in English (Native) and Spanish

***References Available upon Request***