**JEREMY MANIAGO**

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**EDUCATION**

**The City College of New York                                                    Expected Graduation: May 2024**

B.E. Mechanical Engineering, Physics Minor Cumulative GPA: 3.78

*Relevant Coursework:*  Calculus 3 w/ Vector Analysis, Differential Equations, Engineering Design, Computer Aided Drafting, Circuits, Statics/Dynamics, Mechanics of Materials, Numerical Methods, Materials Science, Fluids, Mechatronics

*Affiliations:* ASME City College Chapter, AIAA

**QUALIFICATIONS**

*Software:* Solidworks, MATLAB, Excel, Microsoft Office

*Programming:* Arduino(C), Python, HTML, CSS

*Hands-on:*Arduino, assembly of robots and structures, material testing, mechatronics sensors

*Soft Skills:* Problem Solver, Collaborative, Analytical, Creative, Reliable, Patient, Open-minded

**PROJECTS**

**AIAA RC Plane (American Institute of Aeronautics and Astronautics), City College Aug 2022 - Present**

* Conceptualized and sketched landing gears for DBF (Design Build Fly) RC Plane
* Shared areas of improvement for previous and current designs with a team
* Executed CFDs for two landing gears to determine optimal designs

**Baja SAE car (Society of Automotive Engineers), City College Aug 2021 - Present**

* Designed driveshaft guards for off-road Baja vehicle
* Assisted with researching suppliers for items and tools needed to fully assemble the Baja vehicle
* Participated in manufacturing process of additional components

**Reverse Engineering Project, City College Jan 2021 - May 2021**

* Coordinated and collaborated with a team to sketch and re-design a hand-sized portable fan
* Demonstrated 2-D sketching skills and scaled dimensioning
* Referenced different 2-D sketches to design fan in Solidworks
* Examined the fan’s internal assembly via deconstruction and identified areas of improvement

**RELEVANT EXPERIENCE**

**Tech Flex Leader, America On Tech, Inc.                                       Sep 2019 - May 2020**

* Selected in NYC to participate in a year-long web development fellowship program
* Participated in weekly technology classes taught by software engineers at leading technology companies
* Received 160 hours of coding training using HTML, CSS, JavaScript, Repl.it, and Bootstrap
* Paired with technology mentors and professionals that focused on college and career readiness skills
* Attended professional development training sessions as well as career days hosted at leading tech and media organizations
* Designed multiple websites and templates
* Developed communication and presentation skills

**Hackathons, Midwood High School Oct 2018 & Oct 2019**

* Conceptualized and developed a prototype of an app that addresses global climate change and issues
* Conceptualized a prototype of new traffic lights and system of traffic lights using pseudocode to improve traffic and congestion problems that cause danger to both drivers and pedestrians in dense cities

**AWARDS & ACHIEVEMENTS**

* Dean’s List, The City College of New York **Jan 2021 - Dec 2021**
* Member of Arista Honors Society, Midwood High School **May 2019 - Jun 2020**
* Developed a portfolio of technology projects that illustrated both the understanding of web development and creativity of designs, 2017 & 2019