Sang Kim
New York, NY

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Education

New York University   *New York, NY*

B.S. Mechanical Engineering, Major GPA: 3.51/4.00, Cumulative GPA: 3.27/4.0   *Aug 2016 - May 2020*

- **Dr. Morris Young Outstanding Project Award**:"WOOMBA" ; **Dean's Award**:"Parking Lot Project"
- **Organizations**: Othmer Hall Council, ASME, Society of Asian Scientists and Engineers

Experience

Dash 7 Design / Anish Kapoor   *New York, NY*

Project Manager   *Jul 2020 - current*

- Streamlining remediation of a 20 ft tall, 40 ton, stainless steel art installation sculpture by creating multiple progress management sheets in MS Excel, decreasing project lead times by up to 50%
- Interfacing with sub-contracted engineers to design load transfer props utilized in cable suspending the sculpture
- Producing/managing BOMs and DXF files for CNC fabrication of load transfer props (est cost of $16,0000)
- Assisting engineers and welders on-site by preparing remediation material using angle grinders and portable band saw

NYU Dibner IT   *New York, NY*

Specialized Design Lead   *Nov 2018 - Apr 2020*

- Collaborated with hardware and software engineers to implement a population density tracking system in an NYU library
- Designed and 3D printed housing units for over 500 sonar sensors and 50 Raspberry Pi's with PCBs using SolidWorks
- Implemented tamper-proof screws in RPI/PCB case design to secure over $1000 of hardware and minimize presence
- Drafted floorplans with electrical schematic to reduce installation lead time by 50% using AutoCAD and SolidWorks

MakerBot Industries   *New York, NY*

Materials and Test Engineering Intern   *Sep 2019 - Dec 2019*

- Automated a material testing apparatus to double testing speed using an integrated LabVIEW program
- Developed data processing script in R to generate material behavior graphs from imported raw testing data
- Presented testing data, testing procedures, and material characteristic to VP of Engineering and senior test engineers

Projects

WOOMBA   *New York, NY*

Lead Design Engineer   *Aug 2019 - May 2020*

- Designed the framework of a compact, remotely operated trash-removal water vehicle (ROV) using SolidWorks
- Reduced empty weight of ROV by 25% and optimized material selection using static structural simulations in ANSYS
- Optimized layout of conveyor belt sub-assembly, payload bin, and electronics to improve dynamic stability of ROV by 70%

NYU Aerospace - SAE Aero Advanced Class   *New York, NY*

Design and Manufacturing Engineer   *Oct 2018 - Apr 2019*

- Redesigned wing box and fuselage using SolidWorks Simulations after failed test flight, reducing empty weight by 30%
- Implemented manufacturing standards to rebuild the aircraft in 90 hours, reducing construction time by over 75%
- Reduced stress concentration on center wing box by 60% through static structural analysis in SolidWorks Simulations

Skills

Software	SolidWorks, AutoCAD, CATIA v5, KeyShot8, ANSYS Workbench (Structural Analysis), MATLAB, LabVIEW
Processes	GD&T (ASME Y14.5-2009), R&D, Developmental Design, Design for Manufacture/Assembly
	Rapid Prototyping/Machine Shop (3D Printing, Laser Cutting, CNC, Power Tools)
Misc. Tech.	Mac, Windows, BASH, Git, Adobe Creative Suite, Microsoft Office, Raspberry Pi, Arduino
Certifications	OSHA 30 Certification