Mohammad Arif

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OBJECTIVE

Mechanical engineer with a passion for hands-on manufacturing and design for manufacturing in entry level positions.

EDUCATION

The City College of New York, Grove School of Engineering **GPA:** 3.35
B.E. in Mechanical Engineering **Graduation:** December 2020

SKILLS

Microsoft: Word, PowerPoint, Excel.
Engineering Software: SolidWorks, AutoCAD, Systems Tool Kit (STK), HSMWorks, MATLAB, ANSYS.
Manufacturing: GD&T, Tube bending/welding/notching, Manual Mill, Lathe, 2.5-Axis CNC, Laser Cutter.
Supply Chain: Certified Six Sigma White Belt, Data Management.

EXPERIENCE

Kinetic - ***Supply Chain Intern*** June 2020 - Present
Yonkers, NY

- Collaborating with teammates to assist in company fulfillment and operations of providing wearable devices and increased output by 800%.
- Cooperating with hardware engineering team to aid in the redesigns of various products to increase manufacturability and decrease associated costs.
- Maintaining and organizing inventory management, client communications, and hardware tracking.

Zahn Innovation Center – *Advanced Manufacturing Apprentice* May 2019 – Jan. 2020
New York, NY

- Lead manufacturing team by instructing members on how to utilize both additive and subtractive manufacturing methods and equipment.
- Applied concepts of product design and engineering to develop and test products based on client specifications.
- Completed over 100 project hours with confidential clients and participated on several in-house projects.

ACTIVITIES

BAJA SAE City College - *Steering Team Lead* Feb. 2019 - Present

- Lead the development of a steering system of an AWD all-terrain vehicle while actively teaching members on steering principles.
- Manufactured and fabricated the Baja vehicle with emphasis on GD&T with steel tubing and fixtures.
- Utilized SolidWorks Simulation and ANSYS FEA to analyze current and potential chassis and tie rods designs.

ASHRAE City College Chapter – *Vice-President* June 2019 – May 2020

- Organized student-led workshops and speaker events in the field of HVAC to increase student interest/engagement in related fields.
- Competed in the 2020 ASHRAE System Selection competition to develop an HVAC system for an archive building in Mumbai, India and received the *Rising Star* award.

PROJECTS

Desktop Injection Molder Oct. 2019 – Dec. 2019

- Designed a desktop injection molder for assembly using SolidWorks CAD software.
- Managed and limited project expenses and costs by detailing a bill of materials (BOM).
- Manufactured and machined parts in accordance with GD&T guidelines such as flatness and concentricity.

Finite Element Analysis of Eyeglasses April 2019 – May 2019

- Utilized SolidWorks Simulation to predict and validate locations of maximum stress concentration on eyeglasses.
- Conducted additional FEA studies and sensitivity tests in order to validate proposed geometric changes, with the goal to improve stress distribution of current eyeglasses design.