MAHNOOR AZIM

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Seeking a full-time position as a mechanical engineer in design and production or the construction sector. Skilled in 3D modeling using SolidWorks, Autodesk Inventor, and AutoCAD. Former recipient of a CUNY Fellowship with the Office of the NYC Comptroller.

EDUCATION

The City College of New York • *New York, New York* **May 2020**
Bachelor of Engineering (BE) – Mechanical Engineering *GPA:* 3.18/4.0

SKILLS

Computer: SolidWorks, Autodesk Inventor, AutoCAD, ANSYS Fluent, MATLAB/C++, Arduino IDE, Adobe Photoshop/Lightroom
Other: Contract Analysis, Cost Estimation, CPM Scheduling, Manufacturing, CNC, Technical Drawing, Technical Writing, Soldering
Languages: Fluent in English and Urdu; Elementary proficiency in French

PROFESSIONAL EXPERIENCE

CUNY Engineering Fellow • *NYC Office of the Comptroller* **October 2020 – April 2021**

- Selected as one of 20 recent CUNY graduates to participate in the Comptroller's Fellowship program for future civic leaders
- Analyzed contracts and conducted project analyses for heavy construction disputes and claims, including delay analyses
- Assisted Professional Engineers in performing cost estimations associated with large scale City construction projects
- Prepared and presented a research report on the impact of the COVID-19 pandemic on construction claims

Advanced Manufacturing Apprentice • *The Zahn Innovation Center* **February 2020 – May 2020**

- Fabricated prototypes and helped build client and in-house projects with manufacturing team
- Collaborated with assistant engineers and senior apprentices to create and revise project BOMs when necessary
- Acquired skills in laser cutting, operating the manual mill, lathe, and CNC
- Obtained Lean Six Sigma White Belt certification and completed first part of the HAAS Basic Mill Operator certification

Engineering Intern • *Safe Toddles | Center for Discovery and Innovation* **December 2019 – March 2020**

- Verified quality and measurements for assembly of 3D printed parts for manufactured canes made for handicapped children

ACADEMIC ACTIVITIES

Treasurer and Project Manager • *Women's Robotics Club | The City College of New York* **May 2019 – May 2020**

- Coordinated and led robotics workshops with the executive board
- Oversaw club budget and secured an amount of $1,500 in CCNY annual funding for project equipment and supplies
- Responsible for leading weekly collaborative Baja SAE team meetings and informing executive board about project progress

PROJECTS

Designing an Untethered Hydraulic Elbow Exoskeleton **September 2019 – May 2020**

- Worked in a team of seven to design an elbow exoskeleton which used a hydraulic artificial muscle and Arduino board
- The most cost-efficient vendors were selected to purchase materials for needed parts in order to stay within budget of $250
- Repeated testing of final assembly of exoskeleton showed that the maximum load it could carry was 38 lbs.

Manufacturing a 10" Coffee Table **August 2019**

- Constructed a 10 inch coffee table by using an angle grinder, drill press, angle bender, and MIG welding machine

CAD Model of a Plastic Water Bottle **February 2019 – March 2019**

- Used Solidworks features such as the spline tool to create a 3D CAD model of a standard 16.9 oz. plastic water bottle

CERTIFICATIONS

Engineer in Training (EIT) • *National Council of Examiners for Engineering and Surveying* **Expected Spring 2021**

References will be provided upon request.