

# NOOR AZIM

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Mechanical engineering graduate skilled in SolidWorks, AutoCAD, and Rhino with an emphasis on design and manufacturing.  
Seeking a full-time position as a mechanical engineer in design, production, or the construction sector.

## EDUCATION

**The City College of New York** • *New York, New York*  
Bachelor of Engineering (BE) – Mechanical Engineering

**May 2020**  
GPA: 3.18/4.0

## SKILLS

**Software:** AutoCAD, SolidWorks, Rhino, woodCAD/CAM, woodWOP, HSMWorks, Cut Rite, ANSYS, MATLAB

**Manufacturing:** 3.5 Axis CNC, Beam Saw, Laser Cutter, Manual Mill, Lathe, Soldering

**Other:** Contract Analysis, Cost Estimation, Drafting RFIs, CPM Scheduling, Technical Drawing, Technical Writing

## CERTIFICATIONS

**FE Mechanical (EIT)** • *National Council of Examiners for Engineering and Surveying*

**July 2021**

## PROFESSIONAL EXPERIENCE

**Assistant Design & Manufacturing Engineer** • *Twoseven Inc. // Brooklyn, New York*

**July 2021 – Present**

- Overseeing and operating 3.5 axis CNC for luxury fashion brand window displays such as Hermès and Van Cleef & Arpels
- Performing regular maintenance and repair on shop machinery including beam saw and CNC mills
- Liaising between CAD and production team to streamline communication thus improving production time and quality
- Facilitating in drafting 3D CAD models of retail displays in Rhino and producing technical drawings for shop fabricators
- Preparing CAD drawings for CNC programming and optimizing program milling capacities using woodCAD/CAM

**CUNY Engineering Fellow** • *NYC Office of the Comptroller // New York, New York*

**October 2020 – April 2021**

- Assisted Professional Engineers in performing cost estimations, contract, and delay analyses for heavy construction claims
- Helped to prepare, review, and submit RFIs to contractors and City agencies
- Worked with attorneys at the Bureau of Law and Adjustment to determine claim merit and recommendations for settlement
- Gained insight on City infrastructure projects regarding water supply, treatment plants, bridges, and tunnels
- Prepared and presented a research report on the impact of the COVID-19 pandemic on construction claims

**Advanced Manufacturing Apprentice** • *The Zahn Innovation Center // New York, New York*

**February 2020 – May 2020**

- Fabricated prototypes and assisted in building 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 manual mill and lathe, and writing G-code in HSMWorks for CNC manufacturing
- Obtained Lean Six Sigma White Belt certification and completed first part of the HAAS Basic Mill Operator certification

## ACADEMIC ACTIVITIES

**Treasurer** • *Women's Robotics Club | The City College of New York*

**May 2019 – May 2020**

- Created and submitted bi-annual budget proposals and reports to CCNY student government for club funding
- Oversaw club budget and secured an amount of \$1,500 in annual funding for project equipment and supplies
- Coordinated and led robotics workshops, and served as project manager for collaborative Baja SAE team meetings

## ACADEMIC PROJECTS

**Finite Element Analysis and Design Optimization of a Corkscrew Handle**

**March 2019 – May 2019**

- Conducted ductile corkscrew experiment to obtain approximate maximum loading points and predict failure behavior of part
- Implemented finite element analysis (FEA) on CAD model of corkscrew to analyze points of failure found at inner corners
- Von-Mises stress convergence tests were used for calculating max loads and optimization of inner corners was executed