Moe S. Rohan

ARCHITECTURAL ENGINEER INVESTIGATING LONGEVITY IN ARCHITECTURE

Experienced 3D Fabricator/Engineer/Researcher, with a Bachelor of Science in Architecture. Looking for opportunities where I can utilize my Architectural Engineering skillsets, and help with drawings while enhancing team communication. Recently, I finished applying for a master's degree in Architecture. Thus, I am also looking to gain a more in-depth experience in the AEC field. I wish to use the knowledge that I have, and integrate it in a new environment, where structures can be safely built, and enhance community interaction.

Program-wise, because of my Mechanical Engineering background, I have thorough hands-on experience with Autodesk Inventor and Solidworks. At the current moment, I am using Autodesk Fusion to make fabrication drawings, as it's a program that fuses a lot of the Mechanical Engineering fundamentals. I have references of how I'm using the program at **RaihanFabricates.com**

Moving forward, I wish to use Rhinoceros again, which was the first 3D program I learned, and also utilize Revit, which I have experience from when I was studying Architecture, back in college. I am currently taking a class with Jacob Russo, senior SOM associate, in regards to the potential of how AI will revolutionize the future of Architecture. I am particularly curious, because I have read some books, Superintelligence and Nexus, in particular, in regards to the power of AI.

CONTACT

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(Longevity Researcher)

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(Architectural Engineer)

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EDUCATION

Bachelor of Science in Architecture
Temple University (May 2014)
Philadelphia, PA

High School Diploma
Branford High School (June 2010)
Branford, CT

KEY SKILLS

- Fundamental Mechanical Design Experience
- (Inventor/Solidworks)
- Autodesk Fusion
- Adobe Suite- Photoshop, primary manipulation tool
- Microsoft Suite/Teams- Excel and Word as resources
- Google Email Coordination- Labeling and Keeping Track of Jobs

RELATED EXPERIENCES

Engineer III/ Engineering Coordinator

Greaves Corporation- Centerbrook, CT
May 2025- November 2025

- I used Solidworks for 6 months and supervised the Engineering team at Greaves Corporation. Prior to Solidworks, I used Autodesk Inventor for 3 years. Transition to Solidworks was an easier process, as I was accustomed to using shortcut commands, to utilize what I already knew about 3D programming.
- I also helped create electrical connector part drawings, examples include aluminum+copper lugs, mechanical lugs, copper splices, copper reducers. These are all connector parts for wire transitions, so different wire sizes can connect appropriately to give power in buildings and infrastructures.
- I ended my time at Greaves while working on upgrading their Power Terminal series, which are their best sold connector series. I led the project, as Greaves wanted to offer a wider variety of products for these reducers, and more wire types, to enhance Greaves Portfolio. They needed approval from UL, the governing body for Electrical safety standards, thus, I helped create drawings to satisfy the approval process.
- Besides these primary roles, I also helped with their ERP system. Greaves has its own ERP system, Made2Manage, for managing, in order to have the production operation go smoothly. We updated consistently, so the company could efficiently produce required products that customers were ordering.

Detailer/ Fabrication Coordinator

Logan Steel- Meriden, CT
February 2023- April 2025

2024-25 Work Experience (Internal Fabrication Office)

- I used Autodesk Inventor and AutoCAD to make drawings for their in-house CNC machines. I helped distribute proper files for in-house laser cutters. Logan Steel had 2 primary lasers, when I was working there, as well as a plasma kinetic machine, which has a 80' length grid. It cut up-to to 1.5" thick steel, with the laser cutters alone. The kinetic plasma machine was able to cut up to 3" thick steel plates.

- Architectural Programs: AutoCAD/Rhinoceros/Revit
- Typing speed of 80 WPM
- Blogging in English, doing Longevity Research (MrMoeRohan.com).
- Fully Fluent in Bengali, N3 Level Fluency in Japanese

AWARDS

Gilman Scholarship 2013

Temple University Scholarship 2010-2014

Temple Abroad Scholarship 2013

Miscellaneous, Long Term Work

Branford, CT

September 2015-Ongoing

- Created websites:
- https://raihanfabricates.com
- https://mrmoerohan.com
- https://raihanden.blogspot.com,
- Worked at Parthenon Diner as a dish-washer and server in 2019-2020.
- Worked at Scarpe Di Bianco in 2015, and tutored in NH in English 2015-2017
- Create architectural drawings on Rhinoceros and AutoCAD.
- Create designs on Photoshop, Illustrator, and Indesign.

HIGHLIGHTED PROJECTS (mrmoerohan.com/projects)

Tokyo Tourist Hostel

Location: *Tokyo, Japan*

- 4 months investigating Akihabara, Japan, the main site of a hostel.

Philly Bauhaus Tech School

Location: *Philadelphia, PA*

- 4 months in Philadelphia, investigating how to create a technology school where both teachers and students seamlessly collaborate and create a learning community.

- I also used AutoCAD and Inventor extensively to create drawings for the steel Welding Department. Logan Steel has a large welding department, with an appropriate amount of space to join and weld steel. I helped distribute and coordinate the drawings, in order to make the fabrication process easier. They used the laser cutter and the plasma machine for sheet metal fabrication, and the voortman for structural fabrication. My drawings helped integrate all the different stations, so we can cohesively make products for the customers.

- The structural machine, Voortman, has its own internal program to cut beams, channels, pipes, and plates to appropriate size. The internal program allowed us to manipulate the structural materials to pretty much whatever shape we desired. We were also able to import Inventor/Advance Steel CNC files, and manipulate in Voortman. Examples can be found at **RaihanFabricates.com**, along with 3D files, and blogging of some of the processes.

- Other roles included coordination with outside detailing services, for bigger jobs, that required more in-depth knowledge. These are licensed detailers that use national guidelines, so our shop welders can appropriately weld and make fabrications that had more stringent requirements. I would pretty much check to make sure everything made sense, so we can fabricate appropriately in our SHOP.

2023 Work Experience (Front Sales Office)

- Internally, there were about 60 employees, when I first started working at Logan Steel, back in February 2023. Back then, I was in charge of handing out drawings for the Cutting Department, the Laser department, and the Welding Department.
- Thus, initially I did a lot of coordination to make sure a lot of the jobs got distributed and finished properly.
- I initially fixed simple sheet metal drawings with AutoCAD, so it could be properly cut. I followed up with customers as needed, in order to get approval.

- I also initially used AutoCAD a lot for walk-in customers, who needed a replica of steel pieces that they had. I traced and made 2D Drawings, for fabrication readiness with the machines. Thus, I created DXF drawings for the laser cutter as needed, as well as for in-house drilling.
- In the initial year, I also used AutoDesk Inventor, and I primarily made simpler Assembly Drawings for in-house Fabrication and welding. Logan Steel has an inventory of a lot of steel materials, and many steel structures were made in-house, because they had excess inventory of steel. Thus, the drawing in Inventor was very helpful, as it helped save a lot of time, in regards to step clarity, during the fabrication process.

Engineering Drafter/Designer

Cable Management- Meriden, CT

August 2022– February 2023

- I started using Autodesk Inventor to do manufacturing design; which included creating and analyzing 3D models.
    - I used iproperties to manage drawings. This allowed for easier navigation, by allowing the larger projects to stay in-sync with data.
- There were several types of drawings that I helped create; included are assembly drawings of big recycling systems, and connection detailing of steel parts.
    - Being able to read from the part list and figure out how the assembly parts connect together was a primary purpose. I made drawings so that the Assembly Team can read and build parts based on the design. I accurately provided information about bolts, nuts, washers, and welding locations. Big designs include Screw Conveyors, Granulators, Shredders, and regular Conveyors as well.
- Also used Oracle Netsuite for inventory/transaction purposes.
- I also utilized Excel with OneDrive for Engineering Directory Data. I used to keep track of all my individual drawings as well as drawings made by other team members.