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| **RUSHIKESH PATIL**  **Mechanical Engineer (EIT)** | |  | | --- | | **📪** 10802 CAMINO RUIZ APT G, SAN DIEGO, CA, 92126 | | |  |  | | --- | --- | | **🖂** rdp352@nyu.edu | 🕿 (347) 634 6150 | | |

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** CAREER SUMMARY**

* Experienced **Mechanical and Plumbing engineer** various types of projects including laboratories, healthcare, industrial, office spaces, residential, restaurants and government design build projects.
* Expert in using **REVIT & AutoCAD**.
* Projects completed from Schematics to Construction Administration.
* Knowledgeable in **Mechanical Codes, Plumbing codes, ASHRAE standards and ASPE Guidelines.**
* **Deep understanding of fundamentals**: Psychrometric charts, Fan/pump curves, Thermodynamics, Fluid Mechanics. Currently pursuing PE Licence in California.

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**PROFESSIONAL EXPERIENCE**

**Senior Design Engineer | SC Engineers, CA | MARCH 2021 – PRESENT**

* Types of projects – Laboratories, Healthcare, Industrial and Various Government Design Build Projects.
* Managed multiple projects simultaneously for mechanical and plumbing design, serving as the PM for the project.
* Effectively assign designers and engineers with drafting and calculations. Provided clear markups on PDFs to progress the design.
* Worked on projects from SD to IFC with constant volume, variable volume systems with venturi valves and fume hoods, Packaged rooftop systems, DOAS etc. Edited Masterspec / UFGS specifications. Met with client and other consultants to produce a well-coordinated set.
* Designed specialty plumbing systems such as RO/DI water systems, med gas systems, lab gases systems, and compressed air systems. Worked on renovation projects in existing buildings with phasing and temp systems.
* Worked on Life Cycle Cost Analysis to present options to the client. Participated in design coordination meetings with client / government / other consultants to contribute real time.

**Mechanical Engineer | AMA Consulting Engineers, NY | OCTOBER 2019 – MARCH 2021**

* Types of projects – Restaurants, Office spaces and Retail fitouts.
* Worked on projects with hydronic systems from inception to complete construction documents & CA. Edited book/CAD specifications; collaborated with electrical team to produce a well-coordinated set.

**Mechanical Engineer | GEA Consulting Engineers, NY | JULY 2018 – OCTOBER 2019**

* Types of projects – High rise Residential, Restaurants, church.
* Coordinated with architect and other in-house trades. Developed deep understanding of NYC Mechanical code while learning working of VRF and hydronic systems.
* Meticulously reviewing Shop drawings, Submittals and Responding to RFIs.
* Used Trace for load calculations and AutoCAD and REVIT for drafting.

**MEP Design Engineer | LL Engineering P.C, NY | MAY 2018 – JULY 2018**

* Worked on Mechanical (HVAC), Electrical and Plumbing design for Commercial and Residential buildings.
* Independently took HVAC projects from setting up xref to submitting the final draft with equipment schedule, Detailed drawings and Mechanical Details.

** EDUCATION**

**Master’s in Mechanical Engineering | New York University | MAY 2018 | GPA – 3.63**

* Courses: Heat transfer for HVAC, Design of HVAC, Thermal Engineering, Fluid mechanics for HVAC, Linear control systems.

**Bachelor’s in Mechanical Engineering | University of Pune | MAY 2016 | GPA – 3.50**

* Courses: Machine design, Thermodynamics, Strength of Materials, Heat transfer, Robotics, Advanced CAD.

** TECHNICAL SKILLS**

REVIT │ AUTOCAD │ ASHRAE │ UFGS / UFC │ BUILDING CODES│ TRACE │ HCAI│ ENERGY PRO