**OBJECTIVE:** Skilled, quick learner, adaptable, discipline-driven Mechanical Engineering Master’s Degree graduate eager to utilize skills in applying theoretical knowledge to analytical modeling, designing and problem solving

**EXPERIENCE**

**ANS Consultants INC., South Plainfield, NJ January 2021 - present**

Project Engineer

* Work closely with the senior NDT testing manager in welding & testing work on various sites
* Shadow engineering and inspection staff to learn about project design and management phases of projects

**Omsum Engineering LLC., Piscataway, NJ April 2020 - January 2021**

Mechanical Engineering Intern

* Worked closely with the project manager about inspections of the project data.
* Learn about the various project design and management phases.

**Evolve Architecture & Design, Melville, NY Spring 2019**

Mechanical Engineering Intern

* Worked closely with Project Managers to revise and make changes to architectural designs
* Gathered information on necessary equipment for a space
* Developed layout and plan interior of commercial buildings

**Precision Autowares, Gujarat, India Summer 2015**

Mechanical Engineering Intern

* Conducted weight analyses of the oil pumps after every process including molding, casting and assembling
* Reduction in material usage of the parts precisely by using the proper designing of the casting die

**RELEVANT SKILLS**

* **Applications:** AutoCAD, Revit (BIM), Solidworks, SIEMENS NX9, Excel, Ansys, Netfabb, IMPETUS
* **Languages:** English, Gujarati, Hindi
* **Related coursework:** Advanced studies in Engineering Analysis, Thermodynamics, Stress Analysis, Total Energy System and Design, Heat Transfer, Fluid Dynamics, Finite Element Methods, Mechatronics

**RESEARCH EXPERIENCE**

**Master Thesis: Inclusion of Vascular Network In Brain Fluid Structure Simulation Fall 2019**

* Reconstructed geometry by using Autodesk Netfabb from 3D DICOM Image, validated with experimental data
* Used IMPETUS to perform computational fluid structure interaction (FSI) simulations
* Analyzed deviatoric stress to locate most affected area of the brain under given conditions to assess possible damage and consequently predict the symptoms

**ENGINEERING PROJECTS**

**HVAC Ductwork Design for a Medical Clinic Spring 2019**

* Conducted cooling load and heating load of the coils in AHU
* Developed an air flow diagram
* Designed a ductwork layout

**EDUCATION**

**New York Institute of Technology, Old Westbury, NY** **December 2019**

M.S. Mechanical Engineering **GPA 3.7**

**Gujarat Power Engineering and Research Institute, Gujarat, India**  **June 2016**

B.E. Mechanical Engineering

**CERTIFICATION**

**Concrete Field Testing Technician - Grade I (CFTT), ACI Dec 2020 - Nov 2025**

**Certified Associates Welding Inspector (CAWI) API 1104, AWS Aug 2021 - July 2024**