**Tejas Vandra**

**Mechanical Engineer**

**Phone: +1 205-585-7945 | Email: Tejas.vandra95@gmail.com | Location: CA**

**SUMMARY**

* Around 2 years of extensive experience in performing a full lifecycle product development (design, develop, test prototypes, manufacture and implement); designing systems and components that meet the requirements and specifications.
* Skilled in conducting experiments methodically, analyzing data and interpreting results; identifying, formulating and producing effective solutions to emerging problems.
* Adept in evaluating the final product’s overall performance, reliability and safety; altering and modifying design to meet requirements and to eliminate malfunctions; estimating budget and scope of project.
* Experience with computer-aided engineering (CAE) and computer-aided manufacturing (CAM); familiarity with 2D or 3D engineering design and manufacturing tools (E.g., SOLIDWORKS, AutoCAD and other).
* Solid understanding of core concepts including mechanics, kinematics, thermodynamics, materials science, etc.
* ability to communicate technical knowledge in a clear and understandable manner.
* Proactive and innovative team player proven to work under tight deadlines and capable of work efficiently as an individual.
* Experience in designing mechanical parts and assemblies for vacuum and Ultra-High Vacuum Systems.

**EDUCATION**

**Master’s in Mechanical Engineering**

San Jose State University, CA

Aug 2018 – May 2020

GPA:3.28/4

**SKILLS**

AutoCAD, SOLIDWORKS, ANSYS, Agile, Scrum, Jira, SAP ERP, Microsoft Excel, MySQL, Python, Tableau, Minitab

**EXPERIENCE**

**UHV Transfer Systems Inc, CA | Mar 2021 - Sep 2021**

**Role and Responsibilities: Mechanical Engineer**

* Involved in designing, fabrication, and testing of mechanical, electro-mechanical modules, and related system interfaces for capital equipment tools.
* Created complex drawings for parts and assemblies with proper GD&T to be released to the machine shop.
* Designed custom and configured standard products, created bills of materials while updating the system database for revisions of standard components.
* Worked with assembly drawings/models for standard and custom vacuum products/assemblies on a regular basis.
* Good experience in product assembly using different kinds of hardware and various manufacturing tools like using Lathe, Mill etc.
* Proficient with 3D modeling & 2D detailed drawings using CAD software like Solid works.
* Assembled and tested ultra-high vacuum (UHV) systems containing precision components and standard parts including like flanges, vacuum chambers, load locks, glovebox, pumps, valves, gauges etc.
* Project management with emphasis on quality product being delivered to the customers on schedule.
* Experience with materials and material selection, manufacturing and cleaning processes.
* Conducted various analysis, such as Structural, fluid, thermal, vibrational, and FEA modeling.
* Addressed and resolved product issues throughout various product development phases.

**Environment:** SOLIDWORKS, ANSYS, Excel, AutoCAD, Hands-on experience with Mechanical components.

**Pacific Gas & Electric, CA | Feb 2020 - Feb 2021**

**Role and Responsibilities: Design and Mechanical Engineer**

* Used Agile with Scrum methodology throughout the project, Involved in weekly basis release management.
* Proactively met strict deadlines and goals set for projects by delivering roadmaps, technical assistance, and training to the team; successfully analyzed and transferred data collected in Excel into SAP by developing an SAP ID for individual structures and foundations.
* Reviewed mechanical drawings and roadmaps provided by the GIS team to gather data for structures and foundations of about 1300 substations of PG&E located in California on Excel for future reference.
* Led a team of 4 improved its performance by 10% through carefully observing the sprint tracking documents timely.
* Assisted the project teams with preparing accurate maintenance documents and plans in SAP.
* Played an integral role in reviewing and approving maintenance plans for installing new equipment.

**Environment:** SAP, Excel, Teams, Engineering Layout Drawings