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Dear Recruiting Manager:

I am seeking a **Mechanical Design Engineering** position in a high-technology related field. I hold a Bachelor of Science in **Mechanical Engineering** from Portland State University. My fields of specialty have a heavy emphasis in 3D solid model design, and wet process design. I am very experienced with plastic and metal fabrication of high purity, high vacuum, high pressure plumbing construction for the semiconductor and solar industries. I am knowledgeable in Design For Assembly (DFA), Design For Manufacture (DFM), and Design of Experiment (DOE) practices. I am also very familiar with all specifications (SEMI S2) that the semiconductor industry requires manufacturers to follow. I have recently been trained in and have direct work experience using the current versions of SOLIDWORKS and COSMOSWORKS design software packages.

In my current job, I work as a **Sr. Mechanical Engineer** for *BOC Edwards*, working in the Corporate Technology Group. As a senior level engineer I work with the many departments interested in creating "new technology" products and systems for proof on concept. My group designs, manufactures, tests, and installs new technology design solutions that are commercially viable and designed for manufacturability. I have helped develop several hi-tech gas recycle and wafer cleaning systems for the semiconductor and solar industries.

My last job, I worked as a **Sr. Mechanical Design Engineer//Project Engineer** for *CHEMWEST Systems*. My project engineering tasks included frame, cabinet, plumbing, and chemical wash process design for components, tools, and systems that support the semiconductor and solar industries. Over the course of the last six months I was employed I designed various quartzware and stainless steel part cleaning tools, fixtures, and systems. I have designed various wet process equipment for Intel, AMD, National Semiconductor, MSA, Micron, HP, Fujitsu, Agilent, SEH America, and Wafer Tech. I used AutoCAD 2000i and Mechanical Desktop R5 as my primary design tools. I oversaw engineering projects from the initial product conception and design, up to final test and install. I also supported the sales and customer/field support personnel concerning technical issues. During my employment I gained 5 years of experience in computer aided design, drafting, and manufacturing.

Previously, I worked as a **Sr. Mechanical Design Engineer** for *Natural Data*, a contracting company that had me working at Credence Systems in Hillsboro Oregon. This contract lasted only six months. My engineering tasks included part design, solid modeling, and detailing using Inventor and Mechanical Desktop CAD software for electro-mechanical components and systems. My design tasks included conceptual and parametric solid model design of electro-mechanical interface components for automatic test equipment (ATE). I provided engineering documentation including functional specifications, schematics, mechanical solid models, drawings, and user documentation that ensured design requirements were met. I communicated status schedules, costs, performance and risk aspects of projects. I obtained extensive solid modeling experience using **AUTODESK Inventor** design software. I also maintained compliance with ISO9000 design process standards.

In 99, I worked as a **Sr. Mechanical Design / Project Engineer** for *ACCU-FAB Systems*. My project engineering tasks included process design, mechanical design, and system integration, for manual, semi-automated, and fully automated robotic systems that support the semiconductor, solar, medical, and pharmaceutical industries. The systems include various part cleaning, etching, plating, and rinsing tools. This equipment was designed to custom specifications and to meet strict standards. I was responsible for project engineering tasks and goals including manufacturing and technical customer contact issues. I designed custom tools for AMD, Branch Technologies, LSI, Fujitsu, Cherry Semiconductor, and BP Solar.

I have had both machine shop and clean room experience. I have had the responsibility of writing assembly procedures and drawings for the support staff. I have been trained in the SHAININ statistical engineering problem solving methodology and statistical process control techniques.

I have over ten years of experience using personal computers in engineering-related projects. I have become proficient at using Microsoft Windows, Excel, Word, Outlook, Exchange, AUTOCAD, Mechanical Desktop, Inventor, and Solidworks. I can program in HTML. I also possess experience with computer numerical control (CNC) machines, involving part-programming skills and the integration of CAD/CAM packages in producing CNC machined parts. I have a strong working knowledge of most all CAD and solid modeling systems.

I work well in team environments and have strong interpersonal communication ability. I stand for open communication between the engineering, manufacturing, and sales departments. I am commitment to budget and schedule adherence and have the ability to work under pressure. I am motivated, energetic, and creative in my work and I enjoy brainstorming new ideas. My goal is to be involved in a dynamic, challenging, team oriented, engineering design project.

I am very interested in working for your company and given my past experience and interests I believe I can make a significant contribution to it. Please notify me about any opportunities that may exist.

Sincerely,



Roger Johnson