

# Mohammad AlSaaid

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## Skills and qualifications

- **US Citizen** and able to get a security clearance.
- Knowledge in Geometric dimensioning and tolerance in design of mechanical systems according to **ANSI** cods and international Standards (**BS, DIN, and ISO**).And ability to read mechanical design drawings.
- Able to develop the solutions of the technical problems to make the appropriate decisions and coordinate design and drawings with other disciplines to improve the production and experimental process.
- Able to learn in order to keep with fundamental techniques and latest changing technology to develop projects.
- Knowledge in planning and process development to the assembly process of projects.
- Familiar with design of experiments, manufacturing flowcharts and the process drawings (PID & PFD).
- Knowledge in assembly, test, inspection and quality of devices and electro-mechanical equipment.
- Excellent Academic Background in Mathematic, Fluid Mechanics, Heat Transfer & Thermal energy analysis.
- **Computer Skills; AutoCAD, Certified SolidWorks, MatLab Coding and MS Office.**

## Education

<b>University of Colorado - Denver, College of Engineering and Applied Science.</b>	05/2015
<b>Master's Degree in Science of Mechanical Engineering</b>	<b>GPA (3.92)</b>
<b>University of Technology, Department of Mechanical Engineering.</b>	06/2000
<b>Bachelor's Degree in Mechanical Engineering,</b>	<b>GPA (3.7)</b>

## Experience

<b>Engineering Equipment Technician, Terumo BCT</b> (CO-USA)	10/2015 - Current
<ul style="list-style-type: none"><li>• Helped and Worked with Engineering staff in the plane tests for development the new parts of blood devices.</li><li>• Assembled and tested, and packaged mechanical and electronic subassemblies and packaging electromechanical medical devices (Optia and Trima ) by using safe handling and assembly techniques. Such as; frames, electromechanical parts, fluid sensors, camera, camera lighting strops, electromagnetic parts, CCA and electronic cards ....etc.</li><li>• Used the required hand-tools, test equipment and specialty tools such as digital volt meters (DVM), testing software, torque wrenches, etc.</li><li>• Worked with the assembly teams in the clean rooms, to assemble the disposable kits of blood devices.</li></ul>	
<b>Research associate ( Master's degree).</b> <i>University of Colorado-Denver \ College of Engineering and applied science\ ME Dep.</i>	08\2010-09 /2015
<ul style="list-style-type: none"><li>• Worked as Teacher Assistant for thermodynamic , refrigeration cycles and heat transfer courses.</li><li>• Studied the advance classes of fluid viscouse flow, heat transfer and rotary machine systems</li><li>• Performed engineering study to the new thermal system to improve the heat transfer efficiency by using M-Cycle.</li><li>• Designed the Lab practices and experimental process to the project and analyzed the data results.</li></ul>	
<b>Engineer , US Corp of Engineers / Energy Sector</b>	11\2007- 9\2009
<ul style="list-style-type: none"><li>• Worked with US-Corp of Engineers/ staff of SBH Co, for construction and rehabilitation of the energy and power generation projects, also electrical power distribution stations, to improve production of electrical power projects.</li><li>• Coordinate the designs and drawings of project between the contracted companies and SBH Co.</li><li>• Participated in project team of the electrical generation power projects.</li></ul>	
<b>Engineer \ Mechanical Designer, Saad Co.</b>	6\2000 - 10\2007

- Designed the conveying and handling equipment such as; roller, belt and screw conveyers, bucket elevators to industrial and food factories.
- Participated within the design team to design the mechanism and motion systems to the factories equipment.
- Designed the portable telescopic towers; included the steel frames, sliding mechanism system, gear box, auxiliaries and installation procedure.
- Developed the sheet metals in designs; the machine and equipment covers, storage tanks and conveyers.
- Followed up and modified my designs in the environment of manufactories.
- Worked with design teams to design, modify and install the automation systems in the manufactories.
- Worked as manufacturing engineer to analysis the technical information to workshop technicians.
- Enrolled with the engineering teams to install the factory machines and equipment.