

# Jaspreet Sidhu

San Antonio, TX

-Email me on Indeed: <http://www.indeed.com/r/Jaspreet-Sidhu/82c66fdccc64def3>

To pursue a career in Mechanical Engineering with a respected and established institution with a focus on

Materials Science, project management, professional growth and leadership development.

Authorized to work in the US for any employer

## Work Experience

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### Power Systems Engineer

Power Engineering Services - Converse, TX

December 2019 to February 2021

Analyzed electrical power systems to mitigate issues such as short circuit, coordination and arc flash studies/document various scenarios and configurations to provide various inputs for customer usage.

- Identified potential equipment failure by providing accurate fault current calculations at specific locations using SKM Systems

Analysis software, system input data and by coordinating overcurrent protective devices to prevent major equipment damage.

- Increased equipment protection through time current curve coordination of circuit breakers in the study to interrupt current flow after a fault is detected and to limit faults to smaller areas of the distribution system.

- Determined available fault current and hazards on system equipment through arc flash analysis at each location in the system to obtain minimum safe working distances on live electrical devices guaranteeing the safety of workers.

### Project Engineer

Sentry Depressurization Systems - Humble, TX

March 2018 to August 2019

Created fast depressurization technology systems for substation transformers as a type of fire prevention and safety solution by individually customizing designs per project specifications and requirements.

- Assisted in network profit and continuous improvement of the company's parts and products by introducing techniques from Microsoft Project, such as custom budgeting and costs per task.

- Managed 11 projects encompassing preliminary design, final design, edits/revisions, as-built drawings, bill of materials and drawing packages utilizing SolidWorks to provide a unique depressurization solution for substation transformers.

- Applied RAL color code specifications, ASME Section 8-9, and NFPA 850 to adhere to federal guidelines, achieve fire security and ensure safety regulations are met.

### Teaching Assistant

Materials Engineering and Lab, UTSA - San Antonio, TX

January 2016 to December 2016

Operated equipment such as Rockwell Hardness Testers, Charpy Impact Machines and Tensile Testing Machines to study and analyze different types of metals, polymers and ceramics to find out how they interact under various conditions.

- Molded students to work efficiently as a team and taught them about various methods involved in the Materials Science field to promote the study of material structures and properties.
- Utilized knowledge of heat-treating steels, cold working, grinding, polishing and quench testing on various materials to achieve desired microstructure, macro structures, hardness values and finishes.

## Education

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### **Bachelor of Science in Mechanical Engineering**

University of Texas at San Antonio - San Antonio, TX

August 2013 to December 2017

## Skills

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- Project Engineer with experience in design, management, product improvement and procurement.
- Strong leadership and teamwork skills: Team Lead in several projects ranging from teams of three to above 15.
- Proficient with handling multiple concurrent design and mechanical projects. SolidWorks, Microsoft Excel, Microsoft Project, Microsoft Word, SKM Systems Analysis, Foxit PDF Editor, Adobe Acrobat, Microsoft Publisher, Microsoft PowerPoint
- Mechanical Engineering
- CAD
- Systems Engineering
- Manufacturing
- ASME Codes & Standards
- Drafting
- Hand tools
- Project management
- Maintenance