

# Raghul Mohan

Thatcher, AZ

-Email me on Indeed: <http://www.indeed.com/r/Raghul-Mohan/0a8c06b5cd9e8e2a>

Electrical Engineer with working knowledge from codes of NEC, NFPA 70E, NFPA 850, IEEE 1584-2002, API 500, OSHA, MSHA &

ANSI. Engineered electrical power system, critical loads operation and synchronizing schemes, managed projects that integrates products from different vendors into a large system done with record safety track.

Willing to relocate: Anywhere

## Work Experience

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### Electrical Engineer

Freeport McMoRan - Safford, AZ

September 2019 to Present

- Engineering all phases of electrical system design: load flow study, fault analysis, equipment starting and dynamic starting study, arc flash study, power service and distribution system design.
- Specifying electrical design criteria standards for selection of electrical equipment.
- Evaluated operational practice for compliance with NFPA70E and made operational improvements for worker safety.
- Designed retrofit projects to support capacity expansion while maintaining uptime to critical loads.
- Managed external design consultants to provide construction documentation packages.
- Assisted engineers from different disciplines with development of project scope, bid walk, budget evaluation, technical feasibility evaluation, preparing project schedule and bill of materials.
- Providing engineering support to field electrician for troubleshooting electrical equipment.
- Updating plant one line drawing, evaluating power system protection & coordination study.
- Programmed GE & SEL motor protection relay, feeder protection relay, transformer protection relay, line differential protection relay with 20 substation and 100+ E-Houses.
- Maintaining plant records of equipment ground check, substation testing, megger, Hi-Pot tests
- Creating and reviewing SOP for all electrical equipment operation.
- Designed various projects involving switchgears, transfer switches, rectifiers, chillers, construction management.
- Responding 24/7 to equipment failures and outage to analyze root cause analysis and improve overall reliability.
- Commissioned 2 Substations, over 30 miles of 69kv Transmission line, 13.8Kv distribution power lines, switchgears, transformers and E-houses by expanding whole plant power capacity to 60MWh
- Created SOP's on working with new equipment and specifying lockout points for having LOTOTO.

## Education

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### Master of Science in Electrical Engineering

University of South Florida - Tampa, FL

August 2017 to May 2019

## **Bachelor of Technology in Electrical & Electronics Engineering**

SRM University - Chennai, Tamil Nadu

July 2013 to May 2017

### **Skills**

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- System design
- Electrical engineering
- SolidWorks
- CAD
- NEC