

# TALAL ALSURAYHI

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## EDUCATION

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### TAIBAH UNIVERSITY

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Madinah.

Jan 2025

## WORK EXPERIENCE

### YANPET COMPANY (SABIC AFFILIATE).

Electrical Engineering COOP Trainee

Yanbu, Madinah

Jun 2023 – Aug 2023

- Gained hands-on experience in industrial and electrical safety regulations.
- Acquired a comprehensive understanding of the working principle behind a wide range of electrical devices within the Company.
- Participated in yearly and monthly preventive maintenance for several devices.

## UNIVERSITY PROJECT

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### VOLTAGE PROFILE IMPROVEMENT IN POWER GRID WITH HIGH RENEWABLE ENERGY PENETRATION.

May 2024

- Analyzed the impact of Renewable Energy penetration on voltage stability using PSS/E and Python simulations.
- Evaluated solutions including capacitor banks, Static Var Compensators (SVC), and Thyristor-Controlled Series Capacitors (TCSC) to enhance system stability.
- Determined TCSC as the most effective solution through sensitivity analysis, increasing renewable energy integration capability from **55% to 63%** while improving overall voltage stability.

## SKILLS

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- Power Systems.
  - Renewable Energy Integration.
  - Voltage Stability Analysis.
  - MATLAB.
  - PSS/E.
  - Electrical Safety.
  - Industrial Safety.
  - Workplace Safety.
  - Project Management.
  - Problem Solving.
  - Teamwork.
  - Microsoft Office.
  - Communication Skills.
  - Time Management.

## ADDITIONAL

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**Languages:** Fluent in Arabic; Conversational Proficiency in English.

### Certifications & Training:

- 2024 NFPA 70E: Standard for Electrical Safety in the Workplace Certificate.
- Saudi Council of Engineers Professional Accreditation Certificate 1109247.
- Introduction To Project Management Certificate.