

# Hassain Alabdullatif

## Electrical Engineer

An educated young engineer committed to continuous learning and professional growth, with an ability to adapt to new technologies and master new software tools. Looking to leverage my skills in Industrial Electronics, Solar energy systems and Energy management to contribute to the advancement of renewable energy, environmental conservation, and sustainable living. Focused on driving continuous improvement through the implementation of quality standards, and aligning with organizational goals while creating positive impacts for the community. Seeking a position as an electrical engineer where I can apply my skills and passion to deliver innovative and sustainable solutions.

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📍 Alhasa, Saudi Arabia

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## SKILLS SUMMARY

- ◆ Technical Design
- ◆ Programming and Simulation
- ◆ Electrical Engineering Analysis
- ◆ Data and Automation
- ◆ Collaboration and Management
- ◆ Documentation and Presentation

## WORK EXPERIENCE

### Electrical Engineer

#### DesignTech Engineering Consultants

08/2025 – 12/2025

Saudi Arabia

- ◆ Worked under Distribution Engineering Department of Saudi Electricity Company.
- ◆ Gained knowledge and experience of using SAP-PM Platform, Extracting data of the Equipment, Function Locations, Inventory numbers, Feeders, and Maintenance plans.
- ◆ Familiar with some systems used in SEC works such as IFS, Morning report, National Grid (GeoNG) and Maintenance Activates Dashboard.
- ◆ Supported Eastern Sector Departments on making and correcting maintenance plans for the assets and equipment of underground and overhead distribution networks
- ◆ Benefited from the distribution services' guide library by reading some SEC Standards that helped me complete the work correctly.
- ◆ Learned about some Key Performance Indicators of power distribution reliability which are SAIFI, SAIDI, and CAIDI. And worked on some weekly reports of these KPIs.

### Electrical Engineer

#### Integrated Energy Solutions Co. (IES)

02/2023 – Present

Saudi Arabia

- ◆ Worked on Detailed Feasibility Study (DFS) reports, providing comprehensive evaluation of identifying, assessing, and implementing energy efficiency measures (e.g., DFS reports for Najran Municipality, Emirate of Najran Province, and General Directorate of Passports).
- ◆ Knowledge of Aconex including Document management, workflows, processes, and Building Information Modeling (BIM) collaboration.
- ◆ Familiar with energy audit steps including Systematic evaluation of energy usage and data-driven insights to identify energy-saving opportunities.
- ◆ Experience in Preparing Reports (e.g. Material Inspection Request (MIR), Work Inspection Request (WIR), Certificate of Completion (COC), and Material Submittals (MS)).
- ◆ Project engineer of a Deemed saving Lighting Retrofits project in Al-Ahsa schools.
- ◆ Experience with SAP Ariba: Platform usage & registration process knowledge.
- ◆ Participating in exhibits (e.g. Energy Services Company (ESCO), SOLAR & STORAGE KSA).
- ◆ ASHRAE Standards Support improving System Performance and applying conservative energy measures (CEMs).

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## Electrical Engineer

Saudi Consolidated Engineering Company for Engineering Consultancy (Khatib&Alami)

02/2021 - 01/2023

Saudi Arabia

- ◆ Familiar with the electrical requirements of the Saudi Building Code (SBC) and actively working to enhance knowledge and practical application to ensure compliance and safety in electrical system design.
- ◆ Construction Supervision: Ensure engineering solutions align with design specs and regulatory standards.

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## Entrepreneur

Participated in Entrepreneurial Emerging Leaders (EEL) program

01/2020 - 04/2020

Saudi Arabia

- ◆ Understanding business fundamentals (e.g. Strategy, Marketing, Finance, Operations and daily activities, Sales, people management, Economics, Legal and Ethical Considerations).
- ◆ Nurturing Entrepreneurial skills and Enhancing Leadership Skills.
- ◆ Learning how to identify business opportunities and develop innovative ideas.
- ◆ Training in business planning, financial management, and marketing strategies.
- ◆ Developing resilience, adaptability, and a growth mindset.

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## Trainee

GULF COOPERATION COUNCIL INTERCONNECTION AUTHORITY (GCCIA)

07/2018 - 09/2018

Saudi Arabia

- ◆ Acquiring in-depth understanding of substation functions in power grid and renewable energy system integration.
- ◆ Gaining Technical Skills (e.g. reading and interpreting and analyzing single line diagram (SLD), Grid Management, Grid Data Analysis, Report preparation, Energy security and grid reliability).
- ◆ Comprehensive understanding of the main building blocks of the grid and grid systems, including the automation system, telecommunication systems, distributed control system (DCS), power system, protection system.
- ◆ In-depth knowledge of the principles and purpose of High Voltage Direct Current (HVDC) substations, including the application and benefits of Back-to-Back HVDC technology for efficient power transmission, grid stability, and interconnection of asynchronous networks.
- ◆ Gained valuable exposure to a unique and highly specialized environment within the energy and power sector.

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## Mathematics Grader – Elements of Differential Equations (part-time job)

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS (KFUPM)

12/2016 - 03/2017

Saudi Arabia

- ◆ Graded homework assignments for Elements of Differential Equations with precision and attention to detail, ensuring adherence to course guidelines and academic standards.
- ◆ Collaborated closely with the course instructor to understand grading expectations, preferred guidelines, and effective feedback methods to support student learning.
- ◆ Managed time effectively to grade assignments and return them to the instructor within agreed-upon deadlines.
- ◆ Maintained accurate grading records and submitted grades on a periodic basis as required by the course instructor.
- ◆ Applied advanced mathematical knowledge to evaluate student work, ensuring fairness and consistency in grading.

## EDUCATION

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### **Bachelor of Science degree in Electrical Engineering Second Honors**

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS (KFUPM)

08/2014 - 01/2020

Saudi Arabia

Relevant Coursework:

- ◆ **Digital Design** (Digital circuits and systems, HDLs, automation (industrial, robotics), IoT, data centers, embedded systems).
- ◆ **Industrial Electronics** (Power semiconductor devices, Thyristor switches, Amplification and switching and signal control, Regulators and Power inverters, SCADA Systems, Electronic Design Automation (EDA) Tools).
- ◆ **Optics, Photonics and Optical Communication** (Optics in Manufacturing, Semiconductor lasers, DWDM, MEMS technology, Erbium Doped Fiber Amplifiers (EDFA), Fiber Bragg grating, Optical (sensing/metrology/lithography), Laser Systems, Electro-Optics, Optoelectronics, Diffractive Waveguide, Modulators, Optical instruments, Single/Multi-mode fibers)
- ◆ **Electric Energy Engineering** (DC Machines, Synchronous Machines, 3-phase Circuit Analysis, power system analysis (generation, transmission, distribution), electromagnetic design and analysis, Transformers, Electrical design and troubleshooting and optimization)
- ◆ **Digital Signal Processing** (Analog to Digital Converter ADC, Design of digital filters, Sampling and Reconstruction, data-driven decisions)
- ◆ **Intelligent Controllers** (Fuzzy Linguistic Controllers, Neural Control, Intelligent Control, Expert PID Control)
- ◆ **Control Engineering** (Open/closed-loop systems, PID control, system modeling and analysis and feedback control, Mathematical modeling of physical systems, lead/lag compensator design, technical issues, Mechanical and Industrial and Data Engineering MIDE software tools)

## PROFESSIONAL DEVELOPMENT AND AFFILIATIONS

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- ◆ Certified Saudi Council of Engineers (SCE) Passed Fundamental Engineering Exam of NCEES Certified SEC PV panel designer
- ◆ Certified SEC PV panel installer
- ◆ Attended GCC Lab courses of installation training for Residential and commercial PV Systems
- ◆ Attended GCC Lab courses of design training for Residential and commercial PV Systems
- ◆ Passed CEM exam
- ◆ Excel Development (Excel Business Intelligence: Data Modeling and Excel for Business Analysts)
- ◆ Joined Toastmaster Organization, to build confidence and communication skills

## PROJECTS

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- ◆ **Arithmetic Calculator on FPGA Board**  
Worked on a project with a team of five members to build a code of an arithmetic calculator to run on FPGA board.
- ◆ **Solar Tracker**  
Worked on a project with a team of 3 members to construct tracker of the sun light using Arduino.
- ◆ **Duct robotic cleaner**  
Worked on a senior project with a team of 4 members to implement a robot that is capable of cleaning air ducts.

## SKILLS

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- ◆ Documentation and Presentation
- ◆ parametric modeling
- ◆ Technical Drawings
- ◆ Prototyping and Conceptual Design
- ◆ Collaboration and Communication
- ◆ 3D printing
- ◆ MS Office (Word, Excel, Power point)
- ◆ Power Pivot
- ◆ Automation and Efficiency Macros and VBA
- ◆ Aconex
- ◆ SAP ariba
- ◆ Brainstorming
- ◆ Logical Thinking
- ◆ Schematic design and analysis
- ◆ System-Level Design Understanding
- ◆ Circuit Debugging and Optimization
- ◆ Entrepreneurial skills
- ◆ Data Analysis and Visualization
- ◆ Data Management and Organization
- ◆ Electrical circuit analysis
- ◆ Simulink
- ◆ PSpice
- ◆ 3D modeling and Design
- ◆ Coding & Programming (C++, Arduino, MATLAB, Python)
- ◆ Object-oriented programming (OOP)
- ◆ Numerical computing
- ◆ Sensor interfacing
- ◆ PLD Devices (FPGAs, SPLDs, CPLDs)
- ◆ HDL Languages (VHDL, Verilog, Aldec HDL)
- ◆ Hierarchical Design
- ◆ Multisim
- ◆ 2D Drafting

## TECHNICAL COMPETENCY GOALS

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- ◆ DCS Systems (ABB System800xA, Honeywell Experion)
- ◆ PLCs (Modicon M580, HC900, CP1H)
- ◆ SCADA (Schneider Electric Citect SCADA, KingSCADA)
- ◆ EDA Tools (Cadence, Synopsys, LTspice, Altium)
- ◆ Renewable Energy Tools (HOMER)
- ◆ Design and Simulation Software of PV (PVsyst, Helioscope, System Advisor Model (SAM), SketchUp, SolarGis, PV\*SOL, OpenSolar, RETScreen)
- ◆ ETAP (Electrical Transient Analyzer Program)
- ◆ Ansys Lumerical FDTD
- ◆ RSoft Photonic Device Tools
- ◆ Ansys Zemax OpticStudio
- ◆ 3DOptix
- ◆ PSCAD (Power Systems Computer-Aided Design)
- ◆ Machine Learning Platforms (Scikit-learn, PyTorch)
- ◆ Energy Simulation Software (eQUEST, EnergyPlus)
- ◆ Design buildings and infrastructure in 3D (Revit, Vectorworks Architect, BricsCAD BIM, OpenBuildings Designer, Allplan Architecture)
- ◆ OpenModelica
- ◆ OpenDSS (Open Distribution System Simulator)
- ◆ Digsilent PowerFactory
- ◆ PINNACLE Software
- ◆ Finite Element Analysis (ANSYS, Abaqus, COMSOL)
- ◆ Big Data Platforms (Tableau, QlikView)
- ◆ Data Analytics (SAS Analytics, RapidMiner, KNIME)