

Ahmed Kamal Mohamed

Electrical Engineer

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Qualifications & Professional Experience

Member of Saudi Council of Engineers (SCE)

Membership No: 1209356

Intern

06/2025 – 08/2025

Global Specialized Constructions, Riyadh, Saudi Arabia

- Observed electrical installations including cable trays, conduits, distribution boards, and grounding systems in a hospital project
- Learned about low current systems such as fire alarms, CCTV, access control, and structured cabling
- Observed testing and commissioning of generators, UPS systems, and fire alarm networks
- Participated in site inspections, punch list reviews, and preparation for final handover documentation

Receptionist

09/2022 – 09/2024

Islamic University Sports Center, Madinah, Saudi Arabia

- Dealt with crowds during rush hours
- Welcomed new customers and managed their accounts

Education

Bachelor of Science in Electrical Engineering

01/2021 – 01/2026

Islamic University of Madinah, Madinah, Saudi Arabia

- Completed coursework in Digital Signal Processing, Power and Control Systems, Artificial Intelligence (AI), and Microelectronics
- Conducted a final year project focused on renewable energy technologies or smart grids
- Trained at the construction site of the Global Specialized Hospital in Riyadh

Projects

Voice Controlled Bionic Hand — *Course Project*

01/2022 – 05/2022

- Designed a system that allows motors controlling the hand to be voice-controlled using Arduino
- Programmed the Arduino using C language
- Designed the bionic hand using 3D modeling

Performance Analysis of a PV Grid-Connected System Through an Inverter

Senior Design Project

01/2025 – 11/2025

- Designed and simulated single-phase and three-phase inverters using SPWM control
- Built and tested a single-phase inverter using Si and SiC MOSFETs
- Implemented gate drivers and LC filtering to obtain a clean AC output
- Measured and compared practical performance while troubleshooting real hardware issues

Skills

- MATLAB / Simulink
- AutoCAD
- C Language
- Fast learning and adaptability
- Teamwork and communication

Languages

- Arabic — Native
- English — Fluent