

Meshal Saud Meshari Alotaibi

Electrical Engineer

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 966502018748

 Al Dawadimi - Saudi Arabia

 2002-12-07

 Saudi  <https://communaction.work/home/>

Profile

Recent Electrical Engineering graduate specializing in Communication Engineering with extensive hands-on experience in smart systems, embedded devices, and interdisciplinary innovation. Eager to contribute engineering knowledge, problem-solving abilities, and passion for technology to a forward-thinking organization.

Experience

Intern, Saudi Electricity Company (SEC)

Ad-Dawadimi

- Maintained, installed, and troubleshooted smart MUs and MRMUs in both city and remote areas
- Gained hands-on experience with UEs, sectorizers smart devices, and grid communication hardware
- Independently installed the first MAMU in Ad-Dawadimi under supervision
- Learned practical problem-solving in route setup, communication errors, and field deployment

Education

Bachelor, Shaqra University

- Graduated with specialization in Communication Engineering

Skills

• Arduino/ESP32 Expert	• Raspberry Pi Beginner
• FPGA Beginner	• SCADA Beginner
• PLC Beginner	• Python Intermediate
• HTML/CSS Beginner	• Networking (Routers) Intermediate
• 3D modeling/Printing Advanced	• Logic Gates circuit design Advanced
• Smart Grid Technology	• Maintenance & Troubleshooting
• Digital Communication Systems	• Remote Monitoring Units (RMU)
• Electrical Installation	• Sectorizers Smart Devices
• Circuit Analysis	• Problem Solving
• Time Management	• Critical Thinking

Languages

Arabic

Native

English

Advanced

Interests

- Self learning
- Shooting
- D.I.Y Projects
- Swimming
- Archery

Achievements

EcoSat-net [Graduation Project]

- Hybrid MRV System combining satellite and ground sensor networks
- Designed, built, and deployed a system that collects, forecasts, and displays environmental data
- Full-stack implementation sensor interfacing, data transmission backend forecasting, and web interface
- Semi-finalist at Smart-CDR competition

Smart Home System

- Built and programmed node functions in smart home archetype with various sensors and automation features

Digital Logic Clock (No Microcontroller)

- Designed and developed a working digital clock using only logic gates and timers
- No code used - purely hardware design

Wireless Charging Station for EVs

- Demonstrated wireless power transfer using a toy car
- Assembled the demo unit

Auto Solar Panel Cleaner

- Participated in building a solar panel cleaner that activates based on dust density detection
- Contributed to circuit wiring and part of the code

Vision System for "Sarah" Robot Car

- Built and integrated an AI camera module for object detection and tracking
- Worked as part of a multidisciplinary university team

Robot Hand Controlled by Sensor Glove

- Designed and assembled a robotic hand that mirrors hand movements via glove-mounted sensors
- Developed the control logic and performed 3D modeling and printing for the design

Links

WordPress

LinkedIn