

Meshal Saud Meshari Alotaibi

Electrical Engineer

✉ MeshalSaudAlotaibi@pm.me ☎ 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 troubleshot 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
- D.I.Y Projects
- Archery
- Shooting
- Swimming

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
- Contributes 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