

MARWAN AL-MOGBEL



Contact



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Saudi Arabia



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Skills

- PCB Designer (Circuit Wizard)
- Microcontroller Programming
- Python Programming
- Java Programming
- MATLAB Programming
- AutoCAD
- OrCAD
- Cassy software
- LTspice Simulator
- Gimp
- Camtasia Studio
- Audacity
- Microsoft office

Languages

Arabic

- Native

English

- Professional Working Proficiency

EDUCATION

- **BSc - Electronics and Communication Engineering**

Qassim University GPA: 4.30/5
2017/9 – Present (expected on May 2022)

- Mobile Communication
- 5G Technology
- Information Theory
- Satellite technology
- IC Technology

- **Nanodegree - Artificial Intelligence in Business**

Udacity
2020/12 – 2021/3

- Creating a dataset
- Training and Evaluating a Model
- Measuring impact & Mitigating Bias

- **Nanodegree - Business Analysis**

Udacity
2021/10 - 2022/1

- Basic data skills required in the labor market and query databases using SQL
- Data representation using Tableau
- Data analysis and data modeling using Excel

EXPERIANCES

- **STC**

a summer internship where I had worked with many departments like:

- The Operation and Maintenance Department
 - Information Technology Department
 - Field operation Installation and Maintenance
 - Network Planning and Network Execution
- 2021/5 – 2021/7

- **Assistant Vice President in Robotics Club at QU**

- introduce the basics of microcontrollers for members
 - introduce the sensors and their applications
 - Organizing competitions between members
- 2021/3 - Now

- **IEEE**

- Board Member in IEEE Qassim University Branch
 - Organizing the 3rd QEC Scientific Engineering Symposium at Qassim University
- 2019/4 - Now

- **Students Council**

- Member of Student Council for the collage
- 2019/3 - Now

PROJECT

- **Design a building-to-building high speed duplex data link between Qassim university (main campus) and Unizah campus.**

I worked on this project with my team as a senior design project in the college. we designed a full system that is capable to handle with 100Mbps for a distance of up to 30km using S-band. The system was designed with Bit error rate equal to (10^{-8}) in order to make the system reliable when transferring the financial data

Interests

- Artificial Intelligence
- Programming
- Designing Electronics
- Video Editing
- Telecommunication

- **Diagnosing Model that helps doctors quickly identify cases of pneumonia in children**

By using the AI platform from Google, I build a model that helps doctors quickly identify cases of pneumonia in children. The main goals for this project are to help flag serious cases, quickly identify healthy cases and act as a diagnostic aid for doctors, the precision for the model was 98%

- **Defected PCB Detector**

I build a model that can distinguish between Defected and Non-Defected PCBs without the need of using the required measurements. I use an AI platform from Google to build that model.

- **Smart Lamp**

A lamp that can detect the intensity of illumination in the room and glowing depends on it. Project implemented using Arduino.

- **Temporary Mail**

A Computer Program where you can get a Temporary Email just with one click. The program was implemented using Python.

- **Account Name Finder on Instagram**

A Computer program where the user can choose the number of characters he wants. Then, with one click the program will start generating names and check the availability on Instagram Website. The program was implemented using Python

SOME COURSES

- **Professional Electronics Design** (40h) - Waleed Essa Academy
- **The Future of Work Fundamentals** (20h) - Misk Foundation
- **Project Management** (36h) - Afaq Ailm Acadimy
- **Principle of Arduino** (35h) - Qassim University
- **Blockchain and its Application** (15h) - Ministry of Communications and Information Technology
- **Executive Planning** – Institute of Public Administration
- **Change Management** - Institute of Public Administration
- **Administrative Leadership** - Institute of Public Administration
- **Team building skills** - Institute of Public Administration