

ABDULAZIZ ADNAN AL-DULAIJAN

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SKILLS

- **Proficient:** Python, C++, SQL.
- **Moderate:** Java, Machine learning, TensorFlow, ROS, (ETL) design.
- **Languages:** English (Fluent), Arabic (Native)

WORK HISTORY

Production Engineer, 12/2020 to present

BASIC Smart Meter Factory – Dammam

Working in a PCB Factory that specializes in producing smart meters. There, I did the following:

- I worked with contractors configure machines and setup procedures for PCBA manufacturing, product assembly, and quality testing.
- I worked to get the factory and the product approved by the Saudi Electricity Company, and SASO (Taqyees).
- I worked with other engineers to get ISO 9001:2015 - Quality management systems certification for the factory.

Computer Engineer, 11/2016 to 11/2020

APATH ENGINEERING – Riyadh

- Worked as a computer engineer doing the following:
 - Designed multiple Multi-rotor vehicles with different sizes and uses, with aerospace engineers.
 - Programmed microcontrollers in C++.
 - Programmed for autonomous navigation in Python with open source APIs.
 - Hand built multiple Multi-rotor vehicles.
 - Tuned Multi-rotors control system.
 - Flew vehicles while testing.
 - Presented work at trade shows (such as Dubai Airshow, AFED, Riyadh Airshow).

EDUCATION

Bachelor: Computer Engineering, May 2016

King Fahd University of Petroleum & Minerals

Senior project: "Autonomous Indoor Navigation System in an Unknown Environment"

Online Course: Data Engineering - Nano Degree, January 2021

Udacity

Projects:

- Data Modeling with Postgres: PostgreSQL, ETL, Python, Relational DB.
- Data Modeling with NoSQL: NoSQL, Apache Cassandra, Python, ETL, non-relational DB.
- Data Warehouse: AWS (S3, Redshift, IAM), SQL, ETL, Python.
- Data Lake: Apache Spark, AWS (S3), Python, SQL, big data ETL.

- Data Pipelines: *Airflow, data quality, ETL automation, AWS (S3, Redshift), Python, SQL.*
- Capstone Project: *AWS (S3, Redshift), SQL, ETL, Python (Pandas).*

Online Course: Robotics Software Engineer - Nano Degree (Term 1) January 2019

Udacity

Projects:

- Search and Sample Return: *OpenCV, Python, Computer Vision Techniques.*
- Robotic Arm Pick & Place: *ROS, Python, Forward and Inverse Kinematics*
- 3D Perception: *ROS, Python, Point Cloud Filtering, object recognition.*
- Fallow Me: *Deep Learning, TensorFlow, Python, Keras, Semantic segmentation.*