Mohamed Tarek Hassan

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SUMMARY

Mechanical engineering graduate with extensive experience in mechatronics engineering. Demonstrated ability to design and create automated systems that efficiently manage the production process. Skilled in the use of CAD/CAM software and hands-on experience in the integration of electrical and mechanical components. Applying for a position as a Mechatronics Engineer to develop innovative solutions and improve existing systems.

EDUCATION

Bachelor of Mechanical Engineering (mechatronics)

Arab academy for science and technology · Sheraton Al Matar, Cairo Governorate 11757 · 2023 · GPA: 3.3 very good

CERTIFICATIONS

Embedded Systems Diploma

Amit Education Center • 2022 Graduated with grade 97%

Internship in Atrium City Gate Contractors

Rehab Branch: BLD 8 Administration Buildings, Al Rehab City - Cairo - EG · 2020

planning and analysis of the aspect of the construction that involves mechanical works and ensure the absolute compliance of suppliers in supplying the materials and machinery needed on-site.

PROJECTS

Autonomous Vehicle for Underwater Surface Cleaning

Arab academy for science and technology · September 2022 - July 2023

· A wiring diagram represents the physical connections and physical layout of an electrical system or circuit.

SCARA Robot using MATLAB and Arduino

Arab academy for science and technology · April 2023 - May 2023

· Programmed and tested a SCARA robot to automate material handling tasks, using MATLAB and Arduino.

Robotic Arm of three degree of Freedom using two Arduinos & I2C Communication protocol.

Arab academy for science and technology • October 2022 - November 2022

• Developed and implemented a robotic arm with three degrees of freedom using two Arduinos with the I2C Communication Protocol, resulting in a 30% reduction in arm movement execution time and improved accuracy to less than 1 mm precision.

Smart house automation using Arduino & Lab View.

Arab academy for science and technology · March 2020 - April 2020

• Programmed, debugged and troubleshot the code for Arduino Uno and programmed functions on Lab View incorporating sensor data to create a smart house automation system.

INVOLVEMENT

Roben Electric Cars

Arab Academy for Science and Technology • May 2022 - June 2023

• Constructed robotic vehicle subsystems including chassis, wheels, and motors, utilizing Functional Mock-up Interface (FMIBase) and Simulink to establish communication between heterogeneous systems for improved efficiency.

SKILLS

Languages: ENGLISH: Fluent, Dutch: Beginner

C programming, Python, Matlab, LabVIEW, Autodesk AutoCAD, Autodesk Inventor, Matlab, Software: Orcad Schematic, Electrical Schematic, Wiring Schematic