Andrew Sameh Shokry

Mechatronics Engineer

- Date of Birth: 07 / 01 / 2000
- Military Status: Exempted

Contact Info

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Junior mechatronics engineering graduate with a solid foundation in mechanical and electrical systems. Showed problem-solving skills through academic projects also applied experience with automation technologies. Eager to apply my technical knowledge.

EDUCATION

Al-Salam Private Language School, Tanta. **2005 - 2018**

Graduation Grade: 98%.

Faculty of Engineering, Tanta University. **2018 - 2023**

Bachelor in Mechatronics Engineering. **Cumulative GPA 3.43 (B+).**

Graduation Project GPA 4 (A).

SKILLS

- **Engineering Tools**
  - SOLIDWORKS
  - CodeBlocks
  - MATLAB
  - ROS
- **Embedded & Microcontrollers**
  - Arduino Uno
  - Raspberry pi
- **Computer**
  - Microsoft office (Word-Excel-PowerPoint)
  - Adobe programs
- **Programming**
  - C C++
  - Python
- **Languages**
  - Arabic (Native)
  - English (intermediate)

CERTIFICATES

- **ST Smart Technology**

  -SolidWorks: Advanced knowledge about SolidWorks to design mechanical parts, simulation, stress analysis and 3D printing. **(Certificate NO: 009552)** **February 2021**

- **South Delta Electricity Company**

  -Electrical Engineering training: Studying the various types of electrical devices like the generator, motor and transformers. Learning about electricity generation, transportation and distribution. **April 2022**

- **Egypt Air Company**

  -Mechatronics Engineering training: A field training in Egypt Air hangers showing the plane jet engines and the communication equipment. **September 2022**

Projects

- **Mobile Robot Navigation Indoor (Graduation Project):**

-Team: 10 members of university colleagues.

-Tools: LIDAR sensor, four meccanum wheels with 4 DC motors, sterilization system, MATLAB for system identification, TinkerCAD for circuits simulation, SolidWorks to design the 3D printing and stress analysis of the robot, ROS for robot modeling and mapping.

-Aim: Deliver the medicine to patients in a hospital while sterilizing the floor programmed by python Linux on raspberry pi microcontroller.

- **Three Modes Arduino Car:**

-Team: 5 members of university colleagues.

-Components: ultrasonic sensor, Bluetooth module, IR sensor, two DC motors, servo motor, H bridge, lithium batteries to charge the microcontroller and the motors.

-Aim: To make a car can move with three modes mobile Bluetooth, line follower and ultrasonic switched between them by push button that programmed by C++ on Arduino uno microcontroller.

- **Hand Recognition:**

-Team: 3 members of university colleagues.

-Tools: Neural network algorithm, media pipe concepts.

-Aim: Detect the motion shape of hands and count number of fingers raised using python language through laptop camera.

- **Automatic water level control:**

-Team: 4 members of university colleagues.

-Components: potentiometer, ultrasonic, 5v single channel relay, LCD.

-Aim: Detect and indicate the level of water in the reservoirs or tanks to observe the level of water and provides the information to the registered users through a screen.