Hamas Abo Almaali

Mechatronics Engineer

A mechatronics Engineers who curious about robotics, software, electronics and computer science.

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EDUCATION

Bachelor of Mechatronics Engineering
Tanta University

09/2018 - 07/2023   *GPA 3.68*

WORK EXPERIENCE

Artificial Intelligence Intern
IBM

08/2021 - 10/2021

Achievements

- It was an online training in Artificial Intelligence for outstanding students. It was 20 hours of training.
- Gained experience of Artificial Intelligence basics.
- Worked in a team to help each other in this course.

Intern
Nissan Agency

07/2022 - 09/2022

Achievements/Tasks

- Gained experience in car repair through the agency's maintenance department.
- Specialized in electrical maintenance to repair sensors in the car.
- Got to know many of the internal components of the electrical connections inside the car and how to connect them to each other.

VOLUNTEER EXPERIENCE

IEEE (10/2021 - Present)
*Member in **(FR&PR)** committee and also leader of the "**Techy Sprint**" competition which in three tracks (Web Development - Mobile app - Embedded Systems).*

Wamda (09/2019 - Present)
*I was the leader of **(FR&PR)** committee and now I am the **chairman**.*

Ma'an (09/2019 - Present)
*Member in **activity** committee and I was the leader of the **activity** committee in event called "**Learn How To Learn**".*

Student and Technology Pioneers (STP) (09/2019 - 09/2022)
*Leader of **Embedded Systems** track and vice of the **(FR&PR)** committee.*

Students' Union, Tanta University (11/2018 - 11/2020)
*Member in **Scientific** committee.*

SKILLS

`JavaScript` `C` `C++` `MATLAB` `SOLIDWORKS` `Python (Basics)` `Microsoft Office` `HTML` `CSS`

PROJECTS

Medicine delivery and sterilization robot. (09/2022 - 07/2023)

- I was the team leader of the graduation project which lead us to get excellent grade (A+).
- It's a medical robot that delivers medicines to patients in their rooms at specific times and sterilizes the floor as it moves.
- We applied ROS technology in this project to control the robot.
- This robot is used in hospitals by drawing the map of the hospital and from a separate device can control the robot to deliver the medicine to patients in their rooms.

DEBI Robotics Challenge (04/2023 - 05/2023)

- It's a competition between robots in a one-vs-one matches in a predefined playground. The playground is divided into two identical halves separated by a red line mounted on the ground.
- Initially, the robots start the match at a predefined robot position. Furthermore, each half of the playground has three randomly placed balls with random colors, with only one color for each ball.
- The main mission for each team is to reduce the number of the balls in their area by moving these balls to the opponent's side. Additionally, robots must act autonomously during the match without any human intervention.
- We were the only team that managed the frame rate of the camera to help us to detect the ball and move it to the opponent's side using a manipulator.

Hand Gesture Controlled Car (06/2022 - 08/2022)

- It's a car which I control it with my hand gesture.
- It used to discover anonymous places. These places are watched using a camera.
- I have developed the frame rate of the camera to be in synchronized with frames in my laptop.

ACHIEVEMENTS

Third place in DEBI Robotics Challenge (05/2023)
We got the third place at the level of the Republic, where 190 teams participated in this competition, and we were honored by the Minister of Communications and Information Technology and CEO of Huawei Egypt.

Ideal Student (12/2022)
I got the ideal student award at the college level.

LANGUAGES

Arabic
Native or Bilingual Proficiency

English
Professional Working Proficiency