

# Islam Ashraf Ismail

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## Summary

I'm a software engineer working and studying for a master's degree to start my career in machine learning as a research engineer. Since graduation I've been working on building systems involving robotics and digital solutions.

## Education

### **M.Sc. Machine Learning and Artificial Intelligence**

- Faculty of Engineering – Cairo University - 2022 ~ ongoing
  - Accomplished Courses: Computer vision, Expert systems, Security, Artificial intelligence, Block Chain, Cognitive Robotics.
- Research: worked in teams to create research papers and worked on different datasets.

### **B.Sc. Computer Engineering**

- Faculty of Engineering – Helwan University - May 2019
- Graduation Project: Excellent

## Experience

### **Innovision Systems**

- Robotics Software Engineer - July 2021 ~ Present
  - Learning and searching about Robotics and Control Systems.
  - Developing and tuning robotics control systems
    - robot types: service robots, industry robots
    - Technologies: ROS, NVIDIA Jetson, Depth camera, LiDAR, linux, python, C/C++
  - Building, maintaining and deploying HMI/GUI to control and drive robots with Navigation and Mapping interfaces
    - robot types: service robots
    - Technologies: ROS, Python, Flask, WebSockets, nginx, React, JS, HTML, CSS
  - Tweaking legacy hardware boards such as relays controllers and network adapters flashing new firmware and customizing configurations
- Software Engineer - Sept. 2019 ~ June 2021
  - Gathering and converting user requirements into software solutions.
  - Building, maintaining and deploying digital solutions.
    - Clients: Knorr and Unilever ~ Egypt.
    - Technologies:
      - LabView, SQL Server, OpenCV, Raspberry pi, Digital Cameras.
  - Maintaining legacy systems and its documentation.
  - Developing IOT solutions for data collection, processing and analysis.
    - Client: **verticalware.io** ~ USA.
    - Technologies:
      - AWS, Grafana, balenaFin boards, Docker, MongoDB
      - MQTT Protocol, Vibration Actuator, Python

## Technical Skills

- Python, Flask, Django
- ROS
- OOP, Problem Solving
- DS and Algorithm, Design Patterns, SOLID
- SQL, Database Design, MongoDB
- IOT Development
- Other:
  - AI, Computer vision, Docker, React, JS, HTML, CSS, LabView

## Personal Skills

- Task-Oriented, Hard-Working, Team-Player

## Community Involvement

- Prepare and present (Introduction to Robotics) course for primary school students – 2022
- Co-founder at Wasareoo (وسار عوا) (team - Maadi, 2018 - 2019)
- Project manager at Astronomy club - Helwan university, 2016 - 2018
- Media and PR at Resala Charity Organization, 2013 – 2017

## Projects

- Graduation Project: Funded & Supervised by NTRA And Etisalat
  - Mobile Data Offloading in Integrated Cellular and Wi-Fi Networks
  - The project involved researchers and university professors working with us, improving my research skills.
  - I built programs and tools using java, python and SQL, and worked on the design of the main algorithm in the project.
- Life share (Android Application) - 2019
  - An application to connect blood donors with the people in need
  - Using java (Android studio) and PHP for backend
- Academic Assessment (Desktop Application) - 2018
  - A software to help manage paperwork.
  - C#, DotNet Core MVC
  - Create Software requirements document

## Languages

- Arabic: native
- English: Intermediate