# Mohamed Mesbah Fathy

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## SUMMARY

A Software Engineer with interest in Robotics software engineering, I am an ambitious individual who is looking for a bright career path, seeking a challenging position at which it will be the appropriate place for me to apply my skills and knowledge to make significant contributions in different fields.

## EDUCATION

**Egyptian Academy for Engineering and Advanced Technology (Ministry of Military Production)**

**Bachelor's Degree in Communication and Electronics Engineering.**                    *Sep 2015 - Aug ٢٠٢٠*

- ***Final Year Grade:*** Excellent***, Accumulative Grade:*** *Very Good.*

**Graduation Project:** Autonomous Electric Vehicle, **Grade:** A+.
**Sponsored by:** The Ministry of Military Production and Brightskies technology.

- Developed an efficient electric powertrain system including a brushless DC motor controller.
- Achieved theoretical efficiency of about ١١٠ Km/Kwh.
- Developed the driver console and monitoring systems.
- Designed a lane detection algorithm using python and OpenCV.

## EXPERIENCE

**Vodafone**
**Ai & Automation Engineer**                                                                                     *Jun 2021*

- Working as Software developer in automating of business processes, testing code, and delivering the project through hyper care stage, using Automation tools, supporting other developers, reviewing code.

**ITI**
*Lab assistant and content creator*                                                                          *Jan 2020*

- I prepare and explain the content of a Low-Speed Self-Driving Vehicles ٣-month course.

**Arrow Racing Team (Students' Team)**
*Powertrain Team Leader.*                                                                        *Dec 2018 – May 2019*

- Competed in three different regional and global competitions with a team that successfully designed
- and manufactured three electric cars in a couple of years.
- I managed the powertrain team for "Shell Eco-Marathon" competition that took place in Malaysia, Asia'١٩&٢٠.
- I managed the Auxiliary system for "EVER Egypt" competition took place in Egypt, New Administrative Capital'١٨&٢٠.
- Developed the powertrain modules software and hardware using C / Embedded C.
- The team was able to rank in top ١٠ locally and pass the safety and technical inspections.
- Member at Shell Imagine the Future Team'١٩, Ranking top ١٠ Local.

## COURSES & CERTIFICATES

**Cloud DevOps Engineer Nanodegree**                                      *Aug 2022*

- Deploy a Static Website on AWS.
- Deploy a High-Availability Web App Using CloudFormation.
- Build an automated CI/CD Pipeline for UdaPeople.

**C Programming with Linux by Edx**                                       *Dec 2020*

- Language Foundations
- Modular Programming and Memory Management
- The Command Line Interface -Using Linux Tools and Libraries

**InnovEgypt Program offered by TIEC**                                    *Fab 2019*

- A creative thinking and ideation camp my team ranked the first place in the ideation camp.

**Self-Driving Cars Specialization offered by Coursera and NTL.**         *Mar 2020 – Aug 2020*

- Studied the autonomous software stack (visual perception, localization and control)
- Experienced object-oriented programming using python and C++.

## TECHNICAL SKILLS

- C/C++, Embedded C, Microcontrollers, Python, MATLAB/Simulink.
- OpenCV, TensorFlow
- Familiar with: PCB design, OOP, Kalman Filters.

## PROJECTS

- Clothing consultant Robot using UiPath
- Data capturing Robot using UiPath
- Automation challenge Robot using UiPath
- Real estate web scraping Robot using UiPath
- Advanced Lane lines Detection using OpenCV.
- Vehicle's longitudinal and lateral controller.
- Traffic Sign Classifier

## ADDITIONAL SKILLS

- Microsoft Word, PowerPoint and Excel.
- Management, leadership and communication skills.
- Creative thinking and problem-solving skills.
- Willing to travel internationally for training purposes.
- Adobe programs very good (Photoshop, Illustrator, Premiere).
- English (Very good) written and spoken.

## PERSONAL INFORMATION

- **Date of Birth:** May / ٢٣ / ١٩٩٧.
- **Nationality:** Egyptian.
- **Military status:** Exempted.