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# Mostafa Abdelgawad

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#### EDUCATION

# Cairo University, Faculty of Engineering

Bachelor of Engineering in Communications and Computer; GPA: 3.31

Giza, Egypt
Sep. 2015 - May. 2020

#### Work Experience

# APTIV (EJAD B.O.T. program)

Embedded Systems Software Engineer

Free Zone, Naser City
Oct 2022 - Present

- MPIC (Multi-Purpose Interior Camera)
  part of Daimler's CIVIC "central In vehicle infotainment computer" project:
  - $\ast\,$  Developed APIs used by testing tool "Test Commander" in Python.
  - \* Tested the software in level of SWE.5 "Integration" & SWE.6 "Qualification" testing following ASPICE model.

## Cairo University, Faculty of Engineering

Giza, Egypt

Teaching assistant

Oct 2021 - Jun 2022

- Programming Techniques course:
  - \* Co-instructed C++ basics and function versus object-oriented programming.
  - $\ast\,$  Evaluated students' assignments and quizzes.
- Data Structures & Algorithms course:
  - \* Co-instructed data structures representations in storage media and memory allocation.
  - \* Co-instructed searching and sorting algorithms.
- Advanced Programming Techniques course:
  - \* Co-instructed Programming Techniques in Network and various Media Types (e.g multithreaded programming, Internet programming).

Advansys ESC

Free Zone, Naser City

Sep 2020 - Mar 2021

• **Bupa**: Supported in the maintanace of deployed robots using UiPath, Blue Prism, and Automation Anywhere framworks.

### ACADEMIC PROJECTS

RPA developer intern

- Lipify Lip Reading Application, Graduation Project:
  - Developed a system that can predict the user's words based on selected categories and using only lips movements.
  - Built a lips recognition module using image processing in python.
  - Implemented a feature extraction module using DCT and LDA.
- Arabic Optical Character Recognizer, Pattern Recognition Course:
  - $\circ$  Built an offline OCR system using TensorFlow; depending only on classical approaches to extract features.
- FIFA Analyzer, Big Data Course:
  - Provided meaningful insights and analysis of clubs, age distribution among top valued clubs, and superstars skills.
  - o Built a linear Regression Model using R to predict player's market value.
  - o Built a Polynomial and Linear Regression Models using R to predict player's wage.
- Scrabble Engine, Machine Intelligence Course:
  - o Developed an intelligent agent that plays the scrabble board game.
  - Integreted and tested the Monte-Carlo Module in the system.
- EmojiCode, Compilers Course:
  - Implemented a lexer, parser, and compiler for a language of emojis using Lex and YACC.

### • CURT Cairo University Racing Team

Cairo University Sep 2019 - Jun 2020

- o Participated in Formula Students Competition 2020.
- Built the main dashboard and failure system.

### • Embedded Systems Diploma

Eng. Mohamed Tarek
Sep 2019 - Jun 2020

- Studied Embedded C, AVR Micro-controllers Interfacing, and RTOS.
- Built a door locking security system using TivaC.
  - \* Implemented a Security System consists of two ECU's. HMI which is responsible for interfacing with the user and control ECU which is responsible for the system operations and control.

#### • B1 German Certificate

Goethe Ins.

#### • C1 IELTS Certificate

**IDP** Education

# PROGRAMMING SKILLS

- Languages: Python, R, C++, C, C#, Java, Javascript, PHP, HTML, CSS, JQuery, SQL, VHDL
- Technologies: OpenGL, GIT, Polarion, JIRA, TensorFlow