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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 BOT 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:

- * Implemented a Camera Manager running in RichOS to test the MPIC in QNX through hypervisor layer.
- * Tested the software at the level of SWE.5 "Integration" & SWE.6 "Qualification" testing following the ASPICE model.
- * Collaborated in implementing HIL for qualification testing between the Imager and the MPIC.

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.
 - * 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

RPA developer intern

Sep 2020 - Mar 2021

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

ACADEMIC PROJECTS

• 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.
- o 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:

• Built an offline OCR system using TensorFlow, depending only on classical approaches to extract features.

• FIFA Analyzer, Big Data Course:

- o Provided meaningful insights and analysis of clubs, age distribution among top valued clubs, and superstars' skills.
- Built a linear Regression Model using R to predict a player's market value.
- o Built Polynomial and Linear Regression Models using R to predict players' wages.

• Scrabble Engine, Machine Intelligence Course:

- Developed an intelligent agent that plays the Scrabble board game.
- Integrated 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 consisting of two ECUs. 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: AUTOSAR, GERRIT, GIT, Polarion, JIRA, TensorFlow