



MOHAMED SAID IBRAHIM

ELECTRONICS AND COMMUNICATION ENGINEERING - STUDENT

PROFILE

Motivated Electronics and Communication Engineering student with a strong academic record and hands-on experience in embedded systems, circuit design, and AI applications. Seeking challenging opportunities in the fields of hardware development, PCB design, or machine learning integration within electronic systems. My academic foundation includes several relevant courses –such as Embedded Systems, Applied Control Systems, Electronics Circuit Design, and Microprocessors—that provide me with the technical depth needed to contribute effectively in such roles.

EXPERIENCE

Internships

- ANRPC - Alexandria National Refining and Petrochemicals Company Control Department - Alexandria, Egypt July 7 - July 18, 2024 - Gained practical training in control systems and instrumentation in an industrial refinery environment.
- University of Central Lancashire (UCLan) - Preston, UK Intelligent Machines Training September 9 - September 18, 2024 - Completed an advanced training program on intelligent machines and automation technologies.

Projects & Team Experience & Competitions

- Academic Projects: (1)Emotional Voice Recognition: Trained machine learning models (SVM, XGBoost, LightGBM) on the CREMA dataset using MFCC, PNCC, and Mel features. (2)Sumo Robot: Designed and programmed a competitive sumo robot with two teammates; achieved 2nd place in a college robotics competition. (3)Narrowband to Wideband FM Converter: Developed a Python-based tool to convert FM signal types for improved signal processing.
- Personal Projects: (1)AVO Meter: Built a multimeter using Arduino to measure voltage, current, and resistance. (2)Smart Parking System: Developed an Arduino-based smart parking solution using sensors and automation.
- Team Projects: (1)CNC Machine Restoration: Repaired and automated a CNC machine using LabVIEW and assembly control via VGR software. (2)ROV PCB Design: Designed and fabricated a custom PCB for a Remotely Operated Vehicle (ROV) used in competition.
- Electrical Subteam Member - Triton AAST ROV Team Contributed to the design and development of the ROV's electrical systems. Won 1st Place in the Regional ROV Egypt Competition.

Achievements & Certifications

- CCNA (Cisco Certified Network Associate) - Grade A- 80 hours - July 11 to October 29, 2024
- Coursera Certifications - Summer 2024: (1)Neural Networks and Deep Learning - Andrew Ng. (2)Introduction to Deep Learning with Keras - IBM. (3)Python for Data Science, AI & Development - IBM. (4)Developing AI Applications with Python and Flask - IBM. (5)Software Developer Career Guide & Interview Preparation - IBM. (6)Delivering Quality Work with Agility - IBM. (7)Introduction to Web Development with HTML, CSS, JavaScript - IBM
- IEEE Quarter Tech Talk - August 24, 2024

CONTACT

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Alexandria Egypt

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EDUCATION

Oct 2022 - till present

ARAB ACADEMY FOR SCIENCE,
TECHNOLOGY, AND MARITIME
TRANSPORT ABU QIR, ALEXANDRIA,
EGYPT

- B.Sc. in Electronics and
Communication Engineering
- GPA: 3.73 / 4.0

SKILLS

- Programming & Tools: C, C++,
Python, MATLAB, Jupyter Notebook
- Hardware & Electronics: Arduino,
Microcontrollers, Analog Circuit
Design (Cadence, Virtuoso), PCB
Design (Eagle), Multisim
- AI & Machine Learning: Feature
Extraction (MFCC, PNCC), SVM,
LightGBM, XGBoost
- Software & Simulation: MATLAB,
Simulink, LabVIEW, Linux, Windows

LANGUAGES

- Arabic: Native language
- English: B2 level (according to
Cambridge Assessment) - supported
by participation in an academic
program in the UK.