

# Ahmed Adel Fekry Abdelkader

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## Career Objective

Highly motivated Computer Engineering student at Modern Academy with strong expertise in embedded systems, IoT, and full-stack web development. Skilled in delivering real-world projects involving Arduino, ESP32, and complete web platforms including e-commerce, chat applications, and online examination systems. Seeking an entry-level Embedded Systems Engineer or Full-Stack Developer position to apply technical knowledge, problem-solving skills, and passion for technology in a growth-driven organization.

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## Technical Skills

- Embedded Systems: Arduino, ESP32, Sensors, IoT Solutions
  - Programming Languages: C, C++, Python, PHP, JavaScript
  - Web Development: HTML5, CSS3, MySQL, PHP, JavaScript, Full-Stack Development
  - Database Design: MySQL relational databases, data modeling, query optimization
  - Communication Protocols: Bluetooth, Wi-Fi, Serial Communication
  - Tools: Visual Studio Code, Arduino IDE, MySQL, Git
  - Problem Solving, Debugging, Agile Development, Rapid Prototyping
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## Key Projects & Achievements

### Embedded & IoT Projects:

- **Line-Following Robot:** Built autonomous car using Arduino with IR sensors to follow paths accurately.
- **Obstacle-Avoiding Car:** Programmed vehicle using ultrasonic sensors for real-time obstacle detection and navigation.
- **Bluetooth-Controlled Car:** Designed vehicle fully controlled via smartphone Bluetooth connection.
- **Smart Home System:** Developed complete smart home automation solution controlling appliances remotely via Wi-Fi.
- **Robot Arm (Robotic Manipulator):** Programmed ESP32-controlled robotic arm with precise movement and remote control features.

## Full-Stack Web Projects:

- **E-Commerce Platform:** Designed and developed fully functional online store with secure user registration, product catalog, shopping cart, order management, and payment integration.
  - **Real-Time Chat Application:** Built interactive messaging platform with secure user login and instant real-time communication.
  - **Online Exams System:** Developed web-based examination platform with auto-grading, result calculation, and administrative dashboards.
  - **CV Builder Web App:** Created professional CV builder web application allowing users to generate customizable resumes.
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## Education

### Bachelor of Computer Engineering

Modern Academy for Engineering – Cairo

Expected Graduation: 2027

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## Languages

- Arabic: Native
  - English: Intermediate
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## ATS Keywords

- Embedded Systems
- Arduino
- ESP32
- IoT Development
- Full-Stack Web Development
- C Programming
- C++ Programming
- Python Development
- PHP
- MySQL
- HTML5 & CSS3
- JavaScript
- Database Design
- Robotics
- Bluetooth Communication
- Wi-Fi Communication
- Real-Time Systems
- E-Commerce Development
- Agile Development

- Prototyping