

# Abdelrahman Hazem Khalil

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**Profile**                      Mechatronics Engineering graduate with hands-on experience in machine vision, robotics, and embedded systems. Completed a full-time internship developing vision algorithms using Zebra VS40 cameras. Skilled in Python, ROS 2, OpenCV, and ESP32-based control systems. Passionate about building smart systems that solve real-world problems.

**Language**                      Arabic: Native speaker    English: Proficient (spoken and written)

**Education**  
2021 → 2025                      Bachelor of Engineering (Hons.) in Mechatronics Engineering  
Asia Pacific University of Technology & Innovation (APU), Kuala Lumpur  
Completed all academic requirements. Graduation documents pending (expected October 2025).

**Experience**  
Feb 2024                      **Machine Vision Intern**  
→ Jun                      **Control Easy Technology Sdn. Bhd. , Malaysia**  
2024                      - Developed a real-time machine vision system for ECU defect detection using Zebra VS40 smart cameras.  
  
- Tuned lighting and image processing to improve accuracy in identifying scratches and bent pins on production lines.

**Skills**                      **Programming Languages:**  
- Python (Intermediate), C# (Intermediate), MATLAB (Intermediate)  
**Robotics & Embedded Systems:**  
- ROS 2 (Beginner), ESP32, Arduino, Gazebo, RViz, SLAM (Basic knowledge)  
**Machine Vision:**  
- OpenCV (Intermediate), MediaPipe (Intermediate)  
**Software Tools:**  
- SolidWorks (Intermediate), Automation Studio (Intermediate), CX Programmer / CX Designer (Basic)



Online Portfolio  
Click / Scan