



ABDALLA ELSIDDIG

AI & Robotics Engineer | Computer Vision Specialist

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PROFESSIONAL SUMMARY

Final-year Informatics Engineering student with demonstrated expertise in artificial intelligence, computer vision, IoT, and robotics. Achieved Top 5 national ranking in Huawei ICT Competition for developing an AI-powered rehabilitation system for children with special needs. 1.5+ years of professional experience in software development and web engineering, combined with academic excellence and proven leadership in robotics and emerging technologies.

KEY ACHIEVEMENTS

- Top 5 National Ranking in Huawei ICT Competition (Innovation Track) – Developed AI-powered rehabilitation and educational system for children with special needs
- First Place Winner – University Sumo Robot Competition
- President of IoT Club – Led 3-year initiative advancing IoT education and innovation at university
- 12+ Professional Certifications spanning AI, IoT, Cybersecurity, and Modern Technologies
- Designed and deployed multiple computer vision and IoT solutions with real-world impact

EDUCATION

Bachelor of Informatics Engineering

University of Technology Bahrain

Expected Graduation: 2026 | GPA: 3.38/4.0

Relevant Coursework: Machine Vision, Software Engineering, Networking, Power Electronics, Ethical Hacking, Robotics, Electronics Engineering

PROFESSIONAL EXPERIENCE

President & Founder – IoT Club

University of Technology Bahrain | 2023 - Present (3 Years)

- Founded and led university IoT club, establishing structured curriculum and hands-on workshops for 150+ active members
- Organized quarterly IoT innovation challenges, workshops on embedded systems, and industry speaker events

- Mentored junior members in IoT design, Arduino programming, and real-time sensor integration projects

IT Technical Support & Web Developer (Shopify Specialization)

Glam Moda | 2024 - 2025

- Collaborated with software development team to design, test, and implement innovative software solutions for e-commerce platforms
- Specialized in Shopify platform customization, custom theme development, and app integration with 40% performance improvement
- Conducted system troubleshooting, debugging, and performance optimization using advanced technical tools and methodologies
- Analyzed system logs and user data, generating technical reports and actionable recommendations for system improvement

Robotics Workshop Instructor & Competition Lead

University of Technology Bahrain | 2023 - Present

- Designed and led robotics workshops for student groups, establishing foundational knowledge in embedded systems and competitive robotics
- Won first place in University Sumo Robot Competition with custom-engineered autonomous robot featuring advanced sensor integration
- Mentored 20+ students in robotics engineering and problem-solving methodologies

Contact Center Agent

Gulf CX | 2023

- Professional customer service and technical support in fast-paced contact center environment

FEATURED PROJECTS

AI-Powered Rehabilitation & Educational System for Children with Special Needs

Huawei ICT Competition – Top 5 National Ranking

- Engineered intelligent system combining machine learning and adaptive algorithms for personalized rehabilitation
- Implemented real-time progress monitoring and feedback mechanisms for therapists and educators

Advanced Firefighter Robot

Annual Fire Festival – Ministry of Interior & Civil Defense Partnership

- Engineered advanced autonomous firefighter robot for deployment in hazardous fire environments, demonstrated at prestigious annual fire festival in collaboration with Ministry of Interior and Civil Defense
- Integrated real-time thermal imaging, obstacle detection, and autonomous navigation enabling safe fire identification and suppression in dangerous conditions

AMR Warehouse Robot – Autonomous Mobile Robot

Capstone Project – Shifa National Medical Supply

- Designed and deployed fully autonomous mobile robot for intelligent warehouse management and medical supply distribution with SLAM-based navigation using ROS (Robot Operating System)

- Integrated computer vision for precise object recognition and inventory tracking, reducing manual warehouse operations by 40% and improving supply chain efficiency
- Demonstrated end-to-end robotics system design from hardware integration to autonomous software algorithms, directly impacting operational efficiency in real-world healthcare supply chain environment

Advanced Computer Vision Projects

- Multiple implementations including real-time object detection, image processing, and visual analysis systems using OpenCV and PyTorch
- Achieved 95%+ accuracy on custom dataset through deep learning model optimization

IoT-Based Graduation & Automation Systems

- Designed scalable IoT solutions for academic and industrial applications with real-time monitoring and control capabilities

TECHNICAL SKILLS

Artificial Intelligence & Machine Learning: Python, TensorFlow, PyTorch, Deep Learning, Neural Networks, Machine Learning Algorithms

Computer Vision: OpenCV, Image Processing, Object Detection, YOLO, Real-time Analysis

IoT & Robotics: Arduino, Embedded Systems, ROS, Sensor Integration, Microcontrollers

Programming Languages: Python, C/C++, JavaScript, Java

Web Development: React, Node.js, Express, MongoDB, REST APIs, Shopify Liquid, Full-Stack Development

Cloud & DevOps: Docker, Git/GitHub, Linux, Cloud Platforms

Leadership & Project Management: Team Leadership, Workshop Organization, Mentoring, Curriculum Design

CERTIFICATIONS & ACHIEVEMENTS

Technical Certifications

- Gemini Certified University Student (Google)
- Introduction to Modern AI (Cisco)
- Internet of Things Fundamentals (Cisco)
- Python Essentials 1 (Cisco)
- Microsoft Professional Certificate
- Huawei AI innovation

Professional Development

- Google Ads Creative Certification
- Professional Networking for Career Growth
- Introduction to Cybersecurity Awareness
- First Aid Training (Healthcare Provider)

LANGUAGES

English: Fluent

Arabic: Native Speaker