# Abdulwahab Omira

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## Education

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| **Stanford University** | Jun' 19 – Dec 23' |

**Bachelor's degree: Computer Science - (Artificial Intelligence)**
Related coursework: AI Principles & Techniques,Natural Language Processing ,Machine Learning ,Deep Learning, Decision Making Uncertainty, Computer And Network Security.

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| **University of Pennsylvania** | Jun'18- Aug'21 |

**Micro masters, Study Track: Robotics Specialization** (Professional Online Program)

## Recent Work experience

**Senior Innovation R&D Consultant & Tech Lead, The White Helmets, New York, NY**    Apr'23 – Present

- Co-Established IR&D Unit: Key in launching the Invention Research & Development unit, achieving a 70% increase in innovative project implementations, and fostering collaboration across departments.
- Lead Developer of Drone UXO Detection System: Led the creation of a drone-based UXO detection system, resulting in a 30% improvement in ground team efficiency and the successful removal of 1002 UXOs across 1334 locations at NWS in 2023.
- Live AI Model Integration: Pivotal in merging live AI models with drones, enhancing real-time UXO identification accuracy by 25%, and contributing to 6473 successful UXO clearance operations in Northern Syria in 2023.

**Chief Technology Officer, Repo Coin, Chicago, IL - Palo Alto,CA**    Jul'19 – Jun'22

- Technology Strategy & Efficiency: Developed Repo Coin's tech strategy, enhancing process efficiency by 50% and aligning with business goals.
- Computer Vision & R&D: Led the creation of a License Plate Recognition (LPR) model, increasing vehicle scanning by 35% and enabling smartphone integration.
- Algorithm Innovation: Devised an algorithm improving driver-service vehicle matching by 40%, streamlining operational workflows.
- Tech Deployment & Management: Managed full-cycle technology deployments with a 95% on-time delivery rate, upholding high quality standards.
- Executive Leadership: Directed key tech decisions, contributing to a 30% growth in competitive positioning.

**President & Founder, Omira Technology, Chicago, IL**    Jan'12 – Jan'19

- Innovated in Healthcare & Humanitarian Tech: Founded and led Omira Technology, specializing in healthcare and humanitarian solutions, including a pivotal contract for developing an employee application for Lurie Children's Hospital PICU.
- Developed Rescue Robot: Engineered an autonomous robot capable of locating and prioritizing survivors under rubble, enhancing rescue operations' effectiveness by 30% in disaster scenarios.
- Orchestrated State-of-the-Art Drone Production: Led the engineering of high-capacity, long-duration drones boosting efficiency in critical reconnaissance and medical delivery operations by 25%.

## Volunteer Experience and causes

**Stanford Robotics Club (Leading Stanford Pupper International Program)**    June 22' - Mar 23'

- Taught robotics principles to undergraduate refugees in Turkey and Lebanon, covering math, physics, and coding basics.
- Developed a simplified robotics curriculum for children in Northern Syria's refugee camps, focusing on foundational concepts and accessibility using Stanford Pupper.

**CS 106: [Programming Abstractions in C++] Teaching Assistant (Section leader), Stanford, CA**   Jan'22 - Dec'22

- Instruct weekly discussions for 15-20 students (500+ enrolled) on topics such as programming fundamentals, design and decomposition, object-oriented programming, data structures, recursion and dynamic memory
- Provide detailed written and verbal feedback on ~80 student programming assignments per academic quarter assessing both functionality and style
- Conduct weekly office hours focused on conceptual understanding and effective debugging techniques to aid students in developing problem-solving intuition for Python and C++ code.

## Technical presentations, awards and media

- Award Recipient: Youngest Syrian Inventor by the Syrian Education Commission (May'15)
- Conference Presentation: DET Platform (Turkish presentation forum comparable to TEDx),"How I Became Syria's Youngest Inventor"; (Sep'15)
- Television Interview: TRT Arabic Broadcasting Network - "Nuclear Waste Storage Containers" (Mar'16)
- News Feature: Reuters video – "Syria's Youngest Inventor Saves Lives"

## Skills and qualifications

- Programming Languages: Python, C++, Java, HTML/CSS, JavaScript, Rust.
- Technologies & Frameworks: MEAN stack, React.js, TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV.
- Design & Modeling Tools: SolidWorks, Fusion 360, 3D Max.
- Languages: Arabic, English, Turkish.

## Patents

- "Geographically verified patient logs"; Inventors: Jamil Elkoussa, Sameer Suhail, Abdulwahab Omira, Mohannad Sandid (US, US20200373004A1, Nov 26,'20)
- "Disposal of Nuclear Waste by Sending Outer Space Toward the Sun"; Investor: Abdulwahab Omira (Syrian Patent Office, Licenses 27053, 27056, 27062, May'11))
- "HWIS Project Patent", Inventor: Abdulwahab Omira ((Syrian Patent Office, License 27263, Mar'12_)