



# Zayd Nashed



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## PERSONAL PROFILE

A Syrian high school student based in Saudi Arabia, passionate about STEM, mechatronics, and engineering innovation. Skilled in CAD design, programming, AI, and team leadership, with a strong passion for motorsport, robotics, and sustainable development.

## EDUCATION

### Curriculum: British (IGCSE / A-Levels)

**Orbit International School, Khobar, Saudi Arabia**

#### Completed:

- 6 O-Level subjects: A\* in Mathematics, Physics, Chemistry, Computer Science, Arabic; A in English
- AS-Level Mathematics (A)

#### Planned Examination Schedule:

- Computer Science (AS) – Oct/Nov 2025.
- Mathematics (A2) – May/June 2026.
- Physics (AS & A2) – May/June 2026.
- Computer Science (A2) – May/June 2026.

## LANGUAGES

**Arabic** - Native:

**English** – Fluent:

## KEY ACHIEVEMENTS

- **3x Middle East Champion – Micro:bit Do Your :bit Challenge**  
(2019, 2020, 2022)
- **1st Place – Make It and Play It**, Game Development Competition  
(Saudi Arabia- 2021)
- **2nd Place – Mawhiba Oxmedica AI & Big Data Enrichment Program**  
(King Saud university -2023)
- **1st Place – Mawhiba Oxmedica Computer Science Enrichment Program**  
(King Saud university -2024)
- **3rd Place – STEM Racing Nationals** – Team Sadeem  
(Saudi Arabia, 2025)
- **Best Research & Development Award** – STEM Racing Nationals (Saudi Arabia- 2025)
- **18th Globally / 3rd in KSA – WAICY** - Sign Bridge AI project (2024)
- Author of 3 published articles in Micro Mag magazine
- Featured in Arab News and ARM's 2019 Global Goals Impact Report

## SKILLS

- Programming: Python, C++, R
- CAD & CAM: Autodesk Fusion 360, CNC, 3D printing workflows
- Simulation & Analysis: Ansys Fluent, Ansys Discovery (CFD)
- Microcontrollers: Arduino, Raspberry Pi, BBC Micro:bit
- AI & ML: Model development, speech processing, computer vision
- Soft Skills: Public speaking, leadership, collaborative teamwork

## PARTICIPATIONS & CERTIFICATES

### STEM Racing – F1 in Schools Program

- F1 in schools Regional (Saudi Arabia) – Design & Manufacturing Engineer, Team SLK  
(12 Dec 2023– 01 May 2024)
- STEM Racing Regional (Saudi Arabia) – Head of Engineering, Team Sadeem  
(20 Dec 2024– 8 May 2025)
- STEM Racing Nationals (Saudi Arabia) – Head of Engineering, Team Sadeem  
(8 May– 16 July 2025)

- STEM Racing World Finals (Singapore) – Head of Engineering, Team Sadeem  
(Upcoming: 15 July– 2 OCT 2025)

#### **Micro:bit Do Your :bit Challenge**

- 2019: Dr. Robot
- 2020: Z-Palm Tree
- 2022: Electricity-Generating Running Track

#### **Mawhiba Programs**

- AI & Big Data | Computer Science for a Digital Future  
(Oxmedica – King Saud University, 2023 & 2024)
- Python Academic Enrichment – 60hrs (Aug 2022)
- Scientific Research Fundamentals – 32hrs (26 Dec 2022– 25 Feb 2023)

#### **Hackathons & Innovation**

- Fab Lab Hackathon – Fablab Mustaqbli (15 – 17 Dec 2022)
- Safety Hackathon – Fablab Mustaqbli (16 – 18 Nov 2023)
- Tanween Creativity Exhibition – Ithra, Idea Lab (3 Nov 2023)

#### **Tech & Robotics**

- Make It and Play It – 1st Place (2021)
- Coolest Projects Online – Dancing Dog (2021)

#### **Maker Events & Talks**

- **Fireside Chat** – Dale Dougherty, Maker Faire – Khobar (2019)
- **Saudi Maker Faire** – SABIC- Jubail (2019)
- **Schools Maker Faire** – Dammam (2019)

## **PROJECTS**

- **Dr. Robot:** A robot companion made with BBC Micro Bit for children with asthma that monitors air quality, reminds them about medications, and alerts parents
- **Z-Palm Tree:** An AI-powered talking tree that warns people when it's being cut down or catching fire
- **Z-Dog:** A dancing robot designed to engage children in playful STEM learning
- **Smart Recycling Bin:** Uses AI to detect plastic bottles and rewards the user through a digital point system
- **Electricity-Generating Track:** Made with Arduino and C++ language it converts kinetic energy from footsteps into usable electrical power via piezoelectric materials
- **Sign Bridge:** An AI-powered robotic hand programmed with python and whisper AI that translates spoken English into real-time sign language

## **WORKSHOPS & VOLUNTEERING**

- **Volunteered at SipchemTech camp**  
(Sipchem Company– Khobar - 2019)
- **Trainer on (do your bit) preparation workshop**  
(BrightUP Center- Khobar -2020)
- **STEM workshop with SLK Racing team**  
(Numou Education Center – Khobar - 2024)
- **STEM Racing workshop with SADEEM Racing team**  
(Numou Education Center – Khobar - 2025)
- **3D Printing Workshop Facilitator - Sadeem Racing**  
(Cultural House – Dammam - 2024)

For complete projects, portfolio and certificates, visit [www.zaydnashed.com](http://www.zaydnashed.com)