

# Saniah Abdul Rahman

STEM Educator | Robotics & Coding Specialist | Curriculum Developer

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## SUMMARY

Computer Engineer and STEM Educator with 3+ years of combined teaching and tutoring experience across K–12 settings. Skilled in designing project-based robotics, programming, and electronics curricula that integrate EdTech tools. Experienced in cross-curricular mapping, aligning STEM concepts with core subjects to create interdisciplinary learning experiences. Proven ability to coordinate program delivery as School Point of Contact while fostering student-centered environments that spark curiosity and critical thinking.

## CORE TOOLKIT

**Curriculum:** Curriculum development; STEM teaching; Project-based learning; EdTech integration

**Robotics:** LEGO robotics; Electronics; Arduino IDE; TinkerCAD

**Programming:** Python; Scratch; C++ / Java

**Tools:** SolidWorks; OpenRocket

## EDUCATION



**B.S. Computer Engineering**, The University of Texas at Dallas

December 2024

Relevant coursework: Data Structures, Computer Networks, Computer Architecture, Electrical Network Analysis, Senior Design I & II

## CERTIFICATIONS



**STEM.org Certified™ Master Trainer**  
STEM.org Educational Research



**Google for Education**

Gemini Certified Educator  
Google Certified Educator Level 2  
Google Certified Educator Level 1

## EXPERIENCE



**STEM Instructor**, MH Intellect  
UAE

Aug 2025 – Present

- Lead STEM program operations at Al Sadiq Islamic English School, coordinating with leadership to ensure curriculum alignment and consistent module delivery.
- Design and deliver hands-on sessions in programming, electronics, and robotics for secondary students, adapting instruction to diverse learning needs.
- Implement project-based learning modules integrating real-world problem-solving to strengthen creativity and critical thinking.
- Map STEM concepts horizontally across subjects, creating interdisciplinary connections between robotics activities and core curriculum.



**Outreach Team Member (NASA Lunabotics)**, UTD Comet Aerobotics Club  
USA

Aug 2024 – Dec 2024

- Developed STEM outreach workshops for middle-school students, introducing aerospace and robotics through hands-on programming challenges.
- Created accessible, age-appropriate learning materials encouraging experimentation and the engineering design process.



**Math & Reading Tutor**, Kumon  
USA

Sep 2020 – Jan 2022

- Guided K–12 students through individualized learning progressions in mathematics, building foundational skills and confidence.
- Assessed student progress regularly and adapted instructional approaches to address individual learning gaps.
- Trained and mentored other tutors, sharing best practices for student engagement and effective instructional techniques.

## PROJECTS & VOLUNTEERING



**Drone Light Show Project** — AIAA Aerospace Research Corp (Electrical Team)

Aug–Dec 2024

Designed and tested electrical subsystems for power distribution and safety in autonomous drone systems.



**Online Tutor** — IntelliChoice — Volunteer

Nov 2023 – Dec 2024

10–15 hours/month supporting K–12 students with individualized learning plans.