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**EDUCATION**

**Dubai College 2026**

**Dubai, UAE**

**A level:** Maths, Further Maths, Physics, Chemistry

**GCSEs:** Maths(9), Further Maths(9), English Language(9), English literature(9), Physics(9), Chemistry(9), Biology(9), Economics(9), Computer Science(9), Physical Education(9)

**Advanced placement:** Computer science A (5), Micro Economics (5), Psychology (4)

**COURSES AND PROGRAMS**

March 2025 **UC Berkeley — Intro to Statistics**

* Comprehensive overview of the foundations of statistical analysis and inferential statistics.
* Exploration of real-world applications of statistical methods in decision-making.
* Practical use of statistical methods in research and problem-solving contexts.

Aug, 2024 **InvestIN Engineering — Summer Program**

* Participated in hands-on engineering projects and workshops.
* Engaged with industry professionals and gained insights into engineering careers.
* Developed technical skills in areas such as mechanical and electrical engineering.

July, 2024 **Stanford Pre-Collegiate — Summer Program**

* Collaborated with peers on complex machine learning projects.
* Gained proficiency in Python and advanced programming tools.
* Received mentorship from leading AI researchers and academics.
* Participated in hands-on projects to design efficient AI systems.

July, 2024 Inspirit AI **— Scholars Program**

* Collaborated with peers on AI model creation projects, enhancing teamwork and problem-solving skills.
* Participated in workshops on ethical considerations in AI.
* Completed advanced projects focused on machine learning and data analysis.
* Created an AI model to detect pneumonia in a patient from an X-ray scan.

**EXTRACURRICULAR ACTIVITIES**

**Research and Engineering Project (Present)**

* Engineering mobility solutions for communities in land-locked areas.
* Focused on transporting people (medical personnel, emergencies) and resources (healthcare items, medicine, power, basic sanitation items, building materials).
* Currently building a prototype for this rover and researching materials and mechanisms to ensure functionality.

**Extended Project Qualification (Present)**

* University-level dissertation on "How is Euler’s Formula Applied in Analyzing Vibrational Modes and Natural Frequencies in Mechanical Structures, and What Is the Original Derivation Behind the Formula?"

**Co-Founder of Physics in Motion Club (Present)**

* Founded a club with three friends focused on the physics of moving systems.
* Organized practical sessions, including building rubber band cars and perfume rockets.
* Conducted theory sessions on topics like aerodynamics and internal combustion engines.

**Lower School Liaison (Present)**

* Developed and implemented initiatives to enhance lower school students' academic and extracurricular engagement.
* Organized peer tutoring sessions to support students in challenging subjects.

**Head of Physics and Engineering Society (Present)**

* Led a community of aspiring engineers and physicists, organizing workshops, lectures, and collaborative projects.

**Chief Editor of School Engineering Magazine (Present)**

* Oversaw content creation and editorial strategy for a publication dedicated to scientific exploration and innovation across the school.

**Student Wellbeing Ambassador (Present)**

* Advocated for student mental health and academic support, fostering a positive and inclusive school environment.

**Co-Organizer of the Dubai College Physics Olympiad (Present)**

* Coordinated event logistics and participant engagement for a competitive physics challenge with dedicated certificates for ranging scores.

**Starting Batting All-Rounder, Varsity Cricket U19 (First XI) for Dubai College (Present)**

* Played in Emirates Cricket Board tournament, inter-school competition winners 3 years in a row. Took part in an international school competition (ARCH Trophy). Captained 6s Trophy to win inter-school.

**Starting Center, Varsity Water Polo U19 (First VII) for Dubai College (Present)**

* Inter-school competition winners 2 years in a row, undefeated. A part of the U19 team since Year 10 (14-15 years old).

**PROFESSIONAL EXPERIENCE & PUBLICATION**

**Diebold Nixdorf**

*26 March 25 - 04 April 25*

* Gained exposure to the corporate environment, learning how ATM projects integrate both hardware and software components.
* Collaborated with cross-functional teams to understand project workflows and improve ATM solutions.
* Assisted in testing and troubleshooting hardware and software integrations for ATM systems.

**Sarsan Aviation**

*7 July 25 - 11 July 25*

* Learnt theories of flight such as navier-stokes equation for fluid dynamics and the purpose behind the structure of aircraft/rockets.
* Working in a workshop, creating parts that were to be used on a broken down aircraft on its landing gear.
* Working on independent parts of a jet engine (Soloviev D-30- one of the most powerful turbofan engines)

**Publication Title: Grimrush**

**2020**

**-** Published fiction book (Amazon), with proceeds benefiting “Little Wings Foundation.”

- Managed publishing process, including writing, editing, and promotion.

- Coordinated with the foundation to ensure funds were properly allocated.

**AWARDS**

* **High Achievers Award (October 2024) –** Recognized for excellence in GCSE exams.
* **ISMTF Senior Olympiad Finalist (February 2025) –** Represented DC at an international mathematics competition in Vienna, achieving a top 30 global ranking.
* **Expo 2020 Innovator (2020-ongoing) –** Created a prototype for an ocean clean-up rover, selected for display in the sustainability sector.
* **Mathematics Competition Distinctions (2023-2025) –** Achieved high scores in multiple international maths contests.
* **Science and Mathematics Competitions (2023-2025) –** Won multiple awards representing the school in physics and mathematics.
* **Duke of Edinburgh Awards (2023-2025) –** Completed Bronze, Silver and Gold awards
* **British Mathematics Olympiad Qualifier (November 2024) –** Qualified for the BMO for an exceptional score in the UKMT.
* **Stanford Math Challenge Participant (April 2025) –** Ranked in the top 10% globally in the 2025 tournament in the team round.