David Alanis

David Alberto Alanis Alejandro, born February 2nd

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EXTRACURRICULARS/ARCHIEVEMENTS

Engineer Funatics – Engineering Club | Northville Highschool

October 2025 - March 2026

- Contributing to the design and assembly of competitive robots for FIRST Robotics.
- Utilizing **CAD design** and mechanical engineering principles to build functional robot components.
- Collaborating in a high-intensity team environment to solve real-time hardware challenges.

Robotics (Robostangs) – Mechanical Team | Northville Highschool

September 2025 - PRESENT

- Contributing to the design and assembly of competitive robots for FIRST Robotics.
- Utilizing **CAD design** and mechanical engineering principles to build functional robot components.
- Collaborating in a high-intensity team environment to solve real-time hardware challenges.

Math Olympiad & Tournaments | Liceo de Apodaca

February 2025 - March 2025

- **21st Prepa UDEM Math Olympiad:** Represented Liceo de Apodaca in a field of 1,000+ students across Nuevo León.
- **5th Math Tournament of Nuevo León (Prepa 23):** Competed in advanced logical reasoning and analytical problem-solving challenges.
- Developed high-level perseverance and collaborative problem-solving skills through rigorous training.

KIA STEM Program Presentation — Liceo de Apodaca

August 2025 - November 2025

- Participated in KIA's STEM outreach program, presenting research and solutions to real-world engineering challenges.

- Collaborated with peers to prepare and deliver professional STEM presentations.

SKILLS

- **Programming:** Python, C++, C#, Java
- **Engineering:** Mechanical Assembly, CAD Design, Prototyping
- **Mathematics:** Competitive Logic, Mathematical Reasoning, Physics-based Analysis
- **Soft Skills:** Bilingual (English/Spanish), Public Speaking, Technical Writing, Team Leadership
- **Adaptability:** Experience transitioning between international educational systems and cultures.

LANGUAGES

1. English
2. Spanish

- Served as **co-leader** of a student team participating in KIA's STEM outreach program.

- Delivered a professional presentation alongside the team, building communication and leadership skills.

MUSIC & ARTS

Symphony Orchestra — Violinist (Audition-Only Ensemble) | Northville Highschool

August 2025 - January 2026

- Selected by audition for Northville High School's premier orchestral ensemble.
- Performed in multiple high-level concerts, demonstrating technical proficiency and disciplined practice in a varsity-level environment.

Concert Orchestra — Violinist | Northville Highschool

April 2025 – June 2025; Jan 2026 – June 2026

- Selected by audition for Northville High School's premier orchestral ensemble.
- Performed in multiple high-level concerts, demonstrating technical proficiency and disciplined practice in a varsity-level environment.

EDUCATION

Northville High School, Northville, MI — High School Diploma (Expected 2028)

May 2025 - June 2028

Liceo de Apodaca, Apodaca, Mexico — 9th Grade (2024–2025)

August 2024 - April 2025

PROJECTS

Black Hole Calculator — Independent Project

- Programmed a calculator in Python/C++ to compute black hole properties, such as mass-energy conversions and gravitational effects.

- Applied physics concepts to practical coding, demonstrating problem-solving and analytical skills.