

# VALENTINO CATTANEO

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## EDUCATION

### Purdue University, College of Engineering

*First-Year Engineering, GPA 4.0*

*Intended Major: Mechanical Engineering*

*Clubs: Purdue Baja Racing (SAE), GoAero Purdue, Society of Hispanic Professional Engineers*

*West Lafayette, IN*

Expected Graduation Date: May 2028

### Northlands School

*International Baccalaureate Diploma, GPA 9/10*

*IB Diploma 36/45, Ranked 1/55 in Class. SAT 1540.*

*Buenos Aires, Argentina*

Graduation Date: December 2024

## PROFESSIONAL EXPERIENCE

### Northlands School

*Mathematical Olympiads Tutor, part-time*

- Taught Mathematical Olympiad problem-solving skills to a group of 6 Olympics of ages 15 – 18.
- Explained principles and theory of Combinatorics and Geometry to be utilized in competitions.
- Structured effective lesson plans, utilizing extemporaneous speaking and team management skills.

*Buenos Aires, Argentina*

March 2024 – July 2024

### Lucila Sorzana – Psychologist

*Psychologist Assistant, part-time*

- Organized and modified psychologist's agenda of +50 patients ensuring timely appointment coordination.
- Calculated and registered monthly finances using Excel, optimizing payment process and efficiency.
- Communicated with clients to coordinate appointments, receive session payments and address inquiries.

*Remote, Argentina*

March 2024, July 2024

## LEADERSHIP AND INVOLVEMENT

### Northlands School

*Head Boy*

- Supervised all student-related activities and organizations: Peer-Guidance-Program, Secondary School Newspaper, Drama Festival and holiday-related student activities.
- Dealt daily with administration to secure spaces, time and resources for said projects and activities.
- Developed problem-solving, adaptability and motivational skills related to building and leading teams.
- Led school-wide assemblies and delivered speeches to students, faculty, and parents.

*Buenos Aires, Argentina*

February 2023 – December 2023

### National Commission of Space Activities (CONAE)

*CANSAT Chief Engineer*

- Founded Northlands' first National CANSAT (satellite design) Competition team.
- Managed a team of 5, overseeing work allocation, schedules, deadlines and interconnection between areas.
- Designed secondary mission of the satellite- utilized measurements from accelerometer and barometer to determine its position in real time with Excel Data Streamer.
- Designed satellite's deployable parachute system on an octagonal flat model with given drag coefficients.
- Controlled financial (200 USD) and mass budgets (300g) through design process.

*Buenos Aires, Argentina*

March 2022 – November 2022

## AWARDS, SKILLS, INTERESTS AND CERTIFICATIONS

### Awards:

- Honoric Mention in Regional Stage of the Argentinian Mathematical Olympiad. August 2023
- Honoric Mention in the Selective Test for the International Mathematical Olympiad. May 2022

*Technical Skills: MATLAB, HTML & CSS*

*Interests: Golf - handicap 2, Piano*

*Certifications: MATLAB & Simulink Onramps (MathWorks), Introduction to Engineering Mechanics (Georgia Tech)*

*Languages: Spanish – native, English – bilingual*