

# SANTIAGO VENEGAS HERNANDEZ

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## EDUCATION

**Dartmouth College**, Hanover, NH **June 2027**  
*Bachelor of Arts, Major in Engineering Sciences; Minor in Applied Mathematics* **GPA 3.4/4.0**  
Relevant Coursework: Design Thinking (Fall 2023), Linear Algebra (Winter 2025), Embedded Systems (Spring 2025), Probability and Statistical Inference (\*Winter 2026), Technology Entrepreneurship (\*Spring 2026), Mechatronics (\*Spring 2026)

**High School Instituto Educativo Olinca**, Mexico City **June 2023**  
Graduated with honors, earning dual certification in the IB and national programs **GPA 9.65/10**  
National Finalist, UNAM Science Competition (2022), selected among 200+ schools for innovative recycling/physics project

## RELEVANT EXPERIENCE

**Research in Carbon Sequestration**, Dartmouth College **March 2024 - present**  
*Research Assistant*

- Developed with a professor from the Earth Science department producing biochar with our own sustainable pyrolysis method.
- Teamed up with local farms for testing on crops the char ability for carbon sequestration and optimization of the soil nutrient retainment for a better crop season.
- Engineered and calibrated instruments to collect baseline data for biochar performance experiments.

**Department of Engineering**, Dartmouth College **September 2023 - November 2023**  
*Student Researcher / Course Participant (Design Thinking)*

- Interview and observed stakeholders to understand challenges related to storage and transport of personal devices.
- Collaborated with fellow team members to design a product to address the necessity of phone transportation, engineering multiple prototypes and iterations leading to a functional product design.
- Evaluated market to understand, optimize and execute the advertising strategy most appropriate for the target audience.

**Geopolitical Research**, Yucatan Peninsula **April 2022**  
*Research Student*

- Conducted field research on the Mayan Train project, analyzing its environmental impact for ecological balance.
- Surveyed local communities to assess public opinion and political perspectives on the potential consequences.

**Aevitas**, Mexico City **June 2021 - August 2021**  
*Sales Intern*

- Prospected new clients and updated the customer database to improve lead generation for the sales and telemarketing team.
- Achieved a 48% sales conversion rate, nearly double the company average of 25%.

## LEADERSHIP & ADDITIONAL EXPERIENCES

**International Student Experience Office**, Dartmouth College **March 2024 - Present**  
*International Student Mentor*

- Organized pre-orientation programs for incoming international students in the Classes of '28 & '29, facilitating a smooth campus transition.
- Co-founded "Global Garden" with 5 peers, planning and executing events such as an international food fair and cultural exchange activities to promote community engagement among international students.

**F1 in Schools**, Mexico City **January 2023 - June 2023**  
*National Finalist*

- Reached the national competition; awarded Best Team Identity at the regional level.
- Led cross-functional efforts in car design, prototyping, and manufacturing; team branding and sponsor outreach; financial management and resource allocation

**Asilo Dauverre**, Mexico City **August 2020 - June 2023**  
*Volunteer Program Leader*

- Led a team of 30 student volunteers in organizing bi-monthly activities for elderly residents, including board games, plays, concerts, and social engagement.
- Mentored a high school junior to sustain and pass on the program, ensuring continuity of volunteer efforts.

**Animadores**, Mexico City **August 2020 - June 2023**  
*Trip Coordinator & Leadership Mentor*

- Designed and executed multi-day experiential programs for younger students, enhancing leadership, teamwork, and peer-to-peer communication skills.
- Supervised and mentored activities for groups of 80+ students alongside a 5-member organizing team of Olinca High School Students & Alumni, ensuring smooth operations and measurable participant engagement.

## SKILLS AND INTERESTS

**Technical Skills:** Office 365, Coding (C, MATLAB), CAD (SolidWorks Certified), Laboratory & Research Techniques

**Languages:** Spanish (native), German (fluent), English (fluent)

**Interests:** Guitar, music production, visual arts (oil painting & sculpture), culinary arts, languages, soccer, rowing