

Humberto Martinez

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EDUCATION

Flowery Branch High School

17 AP and 9 Dual Enrollment Courses Taken

Flowery Branch, GA

Graduation Date: May 2024

LEADERSHIP EXPERIENCE

The Falcon Lab

Founder

Flowery Branch High School

October 2022-Present

- Founded a research lab with a focus on biochemistry.
- Coordinated the entire team and ensured our research paper's progress was well.
- Our past project: Developing an accessible and affordable method to detect gastrointestinal nematodes in livestock.

SkillsUSA

Program Manager

Flowery Branch High School

August 2021-Present

- Built and maintained relationships with my school principal to effectively plan and execute school events that require county approval and teacher supervision.
- Formulated and hosted large-scale fundraising events to improve our community presence while gathering new ideas for future events.
- In charge of the Chapter of Excellence Program for our SkillsUSA Chapter, an honors chapter achievement program relative to the SkillsUSA's Framework of developing personal, workplace, and technical skills.

HOSA

Reporter

Flowery Branch High School

May 2021-Present

- Generated an online database using Notion to analyze the chapter's needs, fundraising ideas, and funds while maintaining and publicizing our chapter's Instagram page, which increased the number of members by 75%.
- Gathered the necessary information to publicize our annual events (blood drive, food bank) and recruit volunteers.
- Nominated as a candidate for the Georgia HOSA Inc. State Vice President of Officer Relations after many rounds of interviewing and communicating with members across the state.

Flowery Branch High School

Student Body President

Flowery Branch High School

October 2020-October 2022

- Helped organize some of the events hosted by Flowery Branch High School and represented my graduating class in these events.
- Responsible for maintaining a stable relationship with all staff and students to communicate more effectively the needs of my graduating class with the school principal.

WORK EXPERIENCE

Mathnasium

Math Instructor

Braselton, GA

November 2022-August 2023

- Instructed students in math and thoroughly explained mathematical concepts to children of all ages.
- Helped students cultivate healthier learning habits and skills they'll continue to use later in life.
- Graded mastery checks and daily worksheets.

La Vaquita Inc.

Ice Cream Shop Manager and Customer & Vendor Support

Pendergrass, GA

August 2020-April 2023

- Assisted in handling payments for over 800 vendors while providing aid to different areas around the market.
- Coordinated a team of 3 workers while responsible for developing new ideas for the ice cream shop.
- Responsible for completing the inventory for all our supplies and maintaining a steady supply of our products.

RESEARCH & LAB EXPERIENCE

- The Cornell Lab of Ornithology at Cornell University, Student Researcher*** *June 2023*
Compile and analyze acoustic datasets of Southeast Asian songbirds to assist local partners in Indonesia, Malaysia, and Cambodia to monitor avian biodiversity.
- Georgia Gwinnett College, Research Intern*** *July 2022*
Under the supervision of Dr. Christopher Brandon, I will be stimulating ATCC TIB-71 (RAW 264.7) Cells with 200 nM Lipopolysaccharide (LPS) and then assaying the culture media produced in response to the endotoxin challenges: Tumor Necrosis Factor-alpha (TNFa), Nitric Oxide (NO), and Interleukin-6 (IL-6).
- Flowery Branch High School, Independent Lab Study*** *May 2021*
Performed an analysis on induced Ampicillin resistance *Enterotoxigenic Escherichia coli* through repeated exposure of the pJE202 (pVIB) plasmid. Then used the Kirby-Bauer Disk Diffusion Test as a method of testing resistance.

PERSONAL ACHIEVEMENTS

- QuestBridge National College Match Recipient to Columbia University*** *December 2023*
QuestBridge is a powerful platform that connects the nation's brightest students from low-income backgrounds with leading institutions of higher education and further opportunities. By facilitating these exchanges, QuestBridge aims to increase the percentage of talented low-income students attending the nation's best universities and the ranks of national leadership itself. Match Scholarship Recipients are granted early admission to one of QuestBridge's college partners with a full four-year scholarship.
- Columbia University, Engineering Preview at Columbia (EPC) 2023 Cohort*** *September 2023*
EPC is Columbia's only highly selective overnight program designed for current high school seniors who are interested in a Columbia Engineering education. EPC is designed for high-achieving seniors who have exemplary academic records, particularly in math and science, a sincere interest in pursuing an engineering education, and a genuine appreciation for the educational value of diversity in all its forms.
- AP Scholar with Honor, CollegeBoard*** *July 2023*
Granted to students who receive an average score of at least 3.25 on all AP Exams taken, and scores of 3 or higher on four or more of these exams.
- University of Pennsylvania, Penn Early Exploration Program (PEEP) 2023 Cohort*** *June 2023*
- Dartmouth College, Dartmouth Bound 2023 Cohort*** *June 2023*
- United States National Chemistry Olympiad, National Finalist*** *April 2023*
Named a National Finalist for the USNCO Competition after taking the National Exam.
- QuestBridge College Prep Scholar*** *April 2023*
Selected as a 2023 College Prep Scholar and recognized as a strong potential applicant for colleges such as Duke University, Emory University, Johns Hopkins University, etc.
- President's Volunteer Service Award, Gold*** *April 2023*
Received recognition from the President of the United States for compiling over 250 service hours within 12 months.
- Global Navigator Scholarship*** *February 2023*
Received a highly selective international scholarship award worth over \$5,000 to study abroad in Seoul, South Korea.