

Pablo Gonzalez-Villaseca

Minnetonka, MN • +1 (612) 274-6151 • jpg8@gatech.edu



LinkedIn

EDUCATION

Georgia Institute of Technology

Atlanta, Georgia

December 2026

- B.S. in Chemical and Biomolecular Engineering
- GPA: 4.00
- Awards: Faculty Honors, Horatio Alger National Scholar, Hispanic Scholarship Fund Scholar, American Chemical Society Scholar.
- Activities: Theta Xi, Society of Hispanic Professional Engineers, Hispanic Recruitment Team, American Institute of Chemical Engineers, Intramural Soccer.

EXPERIENCE

Prof. Mark Styczynski Research Group – Georgia Tech

Atlanta, Georgia

December 2023– Present

Undergraduate Research Assistant – Cellular and Metabolic Engineering

- Utilized advanced laboratory equipment to explore metabolism dynamics through “metabolomics” which involves measuring key biochemical concentrations in cells to understand how they work.
- Explored how specific genes impact the way yeast cells produce energy, including their response to the Crabtree effect—a phenomenon where yeast cells selectively ferment sugars even in the presence of oxygen.
- Applied PCR, DNA Transformation, and Recombination methods to analyze how gene deletion affects cells, providing key insights into their evolution and helping develop targeted methods to improve ethanol production and tackle diseases like cancer.

Target Corporation Fulfillment Expert

Minnetonka, Minnesota

December 2021– Present

Team Member

- Contributed to a 35% increase in Adjusted Earnings per Share (EPS) for the 2023 year through an increase in individual product pick rate by 20% working 4+ days/week, reflecting disciplined inventory and expense management.
- Increased yearly customer satisfaction by 4% through personal assistance to 15+ guests/day to direct to different locations when confronted by their unique requests and questions.

LEADERSHIP

Society of Hispanic Professional Engineers (SHPE)

Atlanta, Georgia

August 2023 – Present

Board of Director (BOD) – First Year Liaison

- Oversaw 5+ professional and bonding events for first-year students to foster an inclusive environment and build relationships.
- Communicated with the SHPE treasurer, junior secretary, and president to stay organized while handling a \$1,500 budget campus permits, and logistics on social media exposure through the SHPE Instagram.

American Institute of Chemical Engineers (AIChE)

Atlanta, Georgia

August 2023– Present

Executive Committee Chair – Catering Group

- Assisted Treasurer with inventory, billing assistance, and upkeep to ease collaboration between executive committees.
- Organized corporate “Lunch and Learns” and sponsored events to connect companies with potential associates.

Student Government Executive

Minnetonka, Minnesota

April 2022– June 2023

Board Member

- Planned a breast cancer fundraiser to help survivor finances and future research in the field.
- Spearheaded a “Cultural Fair” to spread cultural awareness and understanding for students and staff.

The Hispanic Student Union (HSU)

Minnetonka, Minnesota

December 2021– June 2023

President/Founder

- Coordinated an inclusive cultural group to aid in the expansion, awareness, and safety of Hispanic heritage in Minnesota.
- Inspired and assisted neighboring school districts to create their own Hispanic cultural groups to strengthen representation.

RELEVANT COURSEWORK

Chemical Engineering Process Principles: Material and energy balances for single/multi-phase processes in chemical engineering.

Matrix Laboratory: Quantitative manipulation of matrices, algorithms, and data types.

Introductory Physics: Formulation of the principles of energy, matter, space, and time to aid in the application of engineering.

Multivariable Calculus: Regression analysis to derive formulas for estimating relationships among various sets of empirical data. Model and study high-dimensional systems that exhibit deterministic behavior.

Linear Algebra: Modeling and analysis of vector spaces and linear transformations to create realistic models for data sets in job settings.

SKILLS

Software: MATLAB, Microsoft Excel, Word, PowerPoint, MS Office.

Languages: English (Native), Spanish (Native).

Skills: Cell Culture, PCR, qPCR, Primer Design, PCR Cleanup, DNA Transformation, Homologous Recombination, ThermoCycler, Centrifuges, Precise Pipetting, Gibson Assembly, Gel Electrophoresis, Leadership, Problem-Solving, Time Management.

Interests: Soccer, Photography, Formula 1, Running.

