

# JOSEPH GAMERO

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## Education

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### University of Pennsylvania

*Bachelor of Science in Engineering, Mechanical Engineering and Applied Mechanics*

**Expected August 2026 – May 2030**

*Philadelphia, Pennsylvania*

### Corona Del Sol High School

*Rank: 1/653 Weighted GPA: 4.93*

**July 2022 – May 2026**

*Tempe, Arizona*

## Skills

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**Technical Skills:** Embedded Systems, C/C++, CAD Modeling, Additive Manufacturing

**Engineering Tools:** SolidWorks, Onshape, EasyEDA, MATLAB, Arduino IDE, Flutter

**Certifications:** Certified SolidWorks Associate (CSWA) – Mechanical Design, RECF Robotics Certification

**Languages:** English (Native), Spanish (Professional Working Proficiency)

## Relevant Coursework

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- Calculus III, Differential Equations, Advanced Engineering Design (3 years)

## Technical Projects

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### Portable Bluetooth Air Hockey Table

**January 2026 – April 2026**

- Led team of 4 through end-to-end product development of miniature Bluetooth-enabled air hockey table, from CAD to manufacturing
- Modeled flow geometry, rink/base, fan air intake, puck/mallets, and goals in SolidWorks, optimized designs with 3D printed prototypes
- Optimized airflow for gameplay by calculating and CNC machining perforated acrylic top surface
- Developed Flutter app to connect via Bluetooth to ESP32, to receive and interpret limit-switch data to monitor game score
- Managed project workflow through GANTT chart scheduling, task allocation, and bill of materials development for budget tracking and procurement

### Smart Pill Box

**September 2024 – June 2025**

- Led group of 3 in designing and manufacturing prototype smart pill box that monitors/reminds users through notifications to take pills
- Won United Nations Sustainable Development Goals Competition, specifically Global Health and Well-Being category (SDG 3.8)
- Designed with CAD multiple iterations and rapidly prototyped with FDM 3D printing technology
- Implemented and tested various sensor types (ultrasonic sensors, Hall effect sensors, limit switches) to detect opening and closing lid actions
- Developed prototype Flutter app to connect via Bluetooth with ESP32 for pillbox lid monitoring

## Extracurricular Activities

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### 3D Printing Club

**Fall 2022 – May 2026**

*Founder & President*

*Corona Del Sol High School*

- \* Founded and grew school 3D printing club, increasing campus interest and access to 3D modeling (teaching Tinkercad, Onshape, and SolidWorks) and additive manufacturing
- \* Secured \$1000+ SRP grant for new cutting-edge 3D printers, accumulated additional printers from donations
- \* Entered 3 teams in UN SDG challenge (2 won), in addition to hosting frequent in-house design competitions

### Superintendent Student Advisory Committee

**Fall 2024 – May 2026**

*Member*

*Tempe Union High School District*

- \* Selected to be 1 of school's 6 committee members, attended monthly meeting with district and superintendent
- \* Discussed ways to handle campus bullying/vandalism through social media campaigns and new technologies (cameras/bathroom RFID system), as well as how to handle AI in the classroom (aided in designing new student AI use handbook for the district)
- \* Storyboarded, filmed, edited, and published social media campaign promoting the High School to combat lowering school enrollment, eventually adopted/implemented by the school for widespread use

### Varsity/Club Sports

**Fall 2024 – May 2026**

*Player & Captain*

*Corona Del Sol High School & Various Organizations*

- \* Played soccer and track & field for 4 years (2 years captain/varsity), and varsity football as placekicker senior year, developed time management, leadership, and performance under pressure
- \* Played 4 years club soccer at EPIC FC, as captain, 3 years Ultimate Frisbee League through VOTS (Valley of the Sun Ultimate League)