

Lohen Chen

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San Diego, CA

EDUCATION

Canyon Crest Academy

San Diego, CA

Class of 2026

Aug 2022 – Jun 2026

- AP: Chemistry (5), Physics 1 (5), Physics 2 (5), Calculus AB (5), BC (5), Lang & Comp (5), World History (5), US History (4), CS Principles (4), CS A (4)
- SAT: 1540

EXPERIENCE

Full Swing Golf

San Diego, CA

Research & Development Intern

Jun 2024 – Aug 2024

- Developed a mini-golf game prototype using Unity Engine, C# scripting, and the Unity Test Framework for commercial golf simulator product line; presented final product directly to the COO
- Updated sensor API backend to support new calculation methods for radar-and-camera-based golf ball trajectory tracking
- Built Python automation tools for internal testing and validation of simulator physics across multiple hardware configurations

LEADERSHIP & SERVICE

Aerospace Club, Canyon Crest Academy

San Diego, CA

President (formerly Project Manager)

Jul 2022 – Present

- Revitalized a declining club by authoring a strategic whitepaper outlining recruitment reform, meeting consistency, and event prioritization; grew membership from 7 to a record 28 members despite a smaller incoming class
- Streamlined from 8 concurrent competitions to 3, redirecting resources toward team-building and improving deliverable quality
- Founded the Student Unmanned Aerial Systems (SUAS) Competition team to give new members immediate hands-on building experience
- Led teams for NASA Cubesat radio communication systems and the Space Settlement Design Competition

Civil Air Patrol – U.S. Air Force Auxiliary

CA/OR Wings

Cadet Staff Sergeant | Aerospace Ed. NCO | Logistics NCO

Sep 2023 – Present

- Delivered monthly aerospace education lessons on flight physics, orbital mechanics, and engineering concepts, replacing dry textbook readings with interactive, concept-driven sessions tailored to cadet interests
- Served as Logistics NCO at CA Wing Encampment 2024, leading a 12-person team responsible for equipment setup, supply inventory, and facility maintenance over a 12-day operation in 110°F heat
- Coordinated 20+ volunteers to wash, inspect, and organize 300+ blankets under deadline pressure, designing an assembly-line workflow that completed the task in 5 hours
- Co-founded squadron's first CyberPatriot team; recruited 4 members and co-coached the team to Platinum tier (top 30%) in debut year

Science Olympiad – Division A Coach

San Diego, CA

Volunteer Coach

Nov 2024 – Feb 2025

- Established a team at an underfunded elementary school with funding, supplies, and coaching; placed 5th/19 in Egg Drop

TECHNICAL TRAINING

Lackland Air Force Base – CVA/H System Training (2025): Trained on the Air Force's premier cyber threat hunting platform with the 273rd Cyberspace Ops Sq. Used Arkime, Suricata, Elasticsearch, and Kibana; team achieved one of the top scores in program history.

U.S. Air Force Academy – Cyberspace Courses (2025): Completed CompTIA Network+ curriculum (Cisco IOS, OSPF, Spanning Tree) and Advanced Administration for Windows/Linux.

PROJECTS

Power Supply PCB – Georgia Tech Processing Systems Lab: Redesigned and upgraded a power supply printed circuit board for an active research lab as part of an engineering capstone project. Read and interpreted real-world circuit schematics, soldered components, and validated board performance.

High-Altitude Balloon Sensor Suite – Aerospace Club: Led a 5-person team to design and build a sensor payload for a high-altitude balloon, including data-visualization software for telemetry analysis. Managed project timeline, task delegation, and integration testing.

Digital Electronics – Senior Year Coursework: Built and tested combinational and sequential logic circuits using discrete components and ICs. Designed circuits using logic gates, gaining foundational understanding of computer hardware architecture.

SKILLS

Programming: C#, Unity, JavaScript, Git, Python, Jira, Plastic SCM

Engineering: Onshape CAD, KiCad, Inkscape, Digital Electronics, Embedded Systems

Cybersecurity: Arkime, Suricata, Elasticsearch, Kibana, Cisco IOS, Windows/Linux Administration

Fabrication: Soldering, Circuit Prototyping, 3D Printing