

Anthony Ung

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Education

Shorewood High School

Running Start / College Dual Credit, GPA: 3.75/4.0

- Target majors: Mechanical Engineering, Mechatronics, Aerospace Engineering

Shoreline, WA

Class of 2027

Technical Skills

Languages: Python, HTML, CSS, JavaScript

Tools: Onshape, SOLIDWORKS, Git/GitHub, Vercel

Domains: Robotics & Mechanical Design, CAD & Fabrication, Team Leadership, Design for Manufacturing, Hardware Design, Project Management

Coursework: AP Calculus AB, AP Physics, AP Chemistry, AP Computer Science Principles, AP U.S. History, AP World History, UW Math 120

Experience

Co-Captain & Director of Engineering

Dec. 2025 – Present

FIRST Robotics Competition, Team 359 ("Hawaiian Kids")

Waialua, HI

- Designed a swerve drivetrain with 4 dual-axis modules for omnidirectional motion, using a Pigeon 2.0 IMU and CTRE CANcoders for closed-loop control
- Engineered a $\pm 200^\circ$ rotating turret with a custom-machined gear and gearbox to reduce backlash, fusing a 5-camera vision pipeline with encoder odometry for inch-level localization to enable [accurate shooting while moving](#)
- Built a triple Kraken X44 flywheel shooter with custom-machined steel flywheels to maximize moment of inertia, paired with a motorized 28° -range hood to extend shooting distance
- Coordinated cross-functional collaboration across programming, manufacturing, and assembly, maintaining [technical documentation](#) for system integration

Developer

May 2025 – Present

Pulse ([pulsefrc.app](#))

Seattle, WA

- Helped develop a competition pit display for FRC robotics to aggregate real-time event data into a single ecosystem, reaching 4,000+ users in its first week

Volunteer Experience

Eagle Scout Candidate & Senior Patrol Leader

June 2020 – Present

Boy Scouts of America ([Troop 167](#))

Seattle, WA

- Led a 15+ participant construction project with the U.S. Army Corps of Engineers, designing and installing a [metal wedding trellis](#) at a public park
- Organized and led weekly meetings for a troop of 50+ scouts, coordinating with scouts and families on event details

Design & Strategy Mentor

May 2025 – Present

FIRST Robotics Competition, Team 10523 (Hybrid)

Shanghai, China

- Mentored a 10+ student design and strategy subteam on an international robotics team, guiding robot design and competition strategy

Event Volunteer

Dec. 2024 – Present

FIRST Robotics Competition & FIRST LEGO League

Seattle, WA

- Volunteered as a judge and field reset crew member at FRC and FLL competition events

Honors & Awards

- AP Scholar with Distinction, College Board
- 3x Dean's List with Distinction, Shorewood High School

FIRST Robotics Competition

- FIRST Impact Award Finalist at the FIRST World Championship (Top 8 in the world out of 3,600+ teams); 69-11 season record (2026)
- 3x Regional Event Championship wins
- 2x Innovation in Control Award, Autonomous Award
- 1x District Event Championship win, Quality Award, Regional Impact Award