Jackson Hong

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EDUCATION

Menlo-Atherton High School | Atherton, CA **Expected June 2027** **GPA:** 3.976 unweighted / 4.317 weighted | SAT: 1540 (800 Math, 740 Reading and Writing)

AP exams: Seven scores of 5 - Calculus AB, Calculus BC, Computer Science A, English Language and Composition, Physics C: Mechanics, U.S. History, and World History

Current coursework: Multivariable Calculus; AP Chemistry; AP Physics C: Electricity & Magnetism; AP Statistics; AP English Literature; Honors Chinese IV

EXPERIENCE & LEADERSHIP

FRC Team 766, M-A Bears **2023-Present** *President (12); Manufacturing Lead (10-11); Member (9) | About 25 hours/week in season, 8-10 offseason* • Lead planning and teamwide coordination for a 60-student program; independently teach CAD to developing members. • Previously led manufacturing for two years, using 3-axis CNC mills, CAM, and shop tools to produce parts across competition robots and train members in fabrication.

- 2025 Regional Engineering Inspiration Award and FIRST Championship qualification, and 2026 District FIRST Impact Award.

Stealth Manufacturing Startup | Intern **Summers 2025 & 2026** Completed two full-time summer internships (40 hours/week).

Science Olympiad | Founder & Captain **2025-Present** Founded a 15-member school team late December of 2025; recruited students and assigned leadership roles and competition events. Currently working on learning and researching events for the upcoming 2027 season.

Young Men's Service League (YMSL), Silicon Valley **2023-Present** *Secretary (12); Slating Committee (11); VP of Meetings (10); Philanthropy Committee (9)*

Completed 70+ service hours at Second Harvest food bank and Lytton Gardens, supporting bingo and dinner service for senior residents.

SELECTED ENGINEERING PROJECTS

Octaby | Co-Founder **2025-Present** Co-founded an assistive bracelet intended to support fine motor control for people who are blind; contributed CAD, electronics research, 3D printing, assembly, and self-testing of the first working prototype.

Thermal-Tracking Fan Turret | Designer **2026-Present** Completed CAD for an in-progress turret-and-arm system intended to use body-heat data to aim a fan and cool specific regions to target temperatures; physical build underway.

Customizable Cycloidal Gearbox | Designer **2026** Designed a plug-and-play, customizable cycloidal gearbox concept for Kraken motors; fabrication planned.

Card-Counting Sunglasses | Designer **2025-2026** Designed and partially prototyped home-use blackjack sunglasses using a camera, servo, and vibration motor to signal bet size and whether to bet; final build not completed.

Robot CAD Practice | Designer **2025-Present** Designed one complete robot and two mechanisms in preparation for FRC design work.

Additional Software Projects | **chefle.org** **2025-Present** Created Chefle, a launched food-guessing web game; Reel for Reel, a multiplayer Reels party game; and a completed Windows 11 real-time lyrics overlay.

SKILLS & INTERESTS

Design: Onshape, Fusion 360 CAD/CAM, technical drawings, dimensioning and tolerancing, design for manufacturing

Fabrication: CNC and manual machining, lathe, 3D printing, soldering, shop tools, precision measurement, mechanical assembly, prototyping, robot troubleshooting

Languages & interests: English; basic conversational Mandarin Chinese (currently studying); piano (10 years of study)