Teo Schnell
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EDUCATION

May 2028 (expected) **BS Aerospace Engineering,** San Jose State (Accepted Fall 2026)
May 2026 (completed) **AS Engineering,** Cabrillo College, Aptos, California
May 2025 (completed) **AS Computer Science,** Cabrillo College, Aptos, California

HONORS and ACHIEVEMENTS

GPA 3.60
CSWA: SolidWorks Certification, 2025
FAA Part 107 Certification (In Progress)
Goethe Institute A2, German Language, 2025

SKILLS

Engineering Software: SolidWorks, Fusion360, AutoCAD

Manufacturing: Manual/CNC machining, 3D Printing, Precision Foam Fabrication (aerodynamic/wings components)

Material Testing and Reporting: conducted tensile, compression, hardness, and impact testing on materials; analyzed results; presented data; created graphs and tables; and produced lab reports.

Programming: C++, Embedded C, Python, ROS2, RISC-V, Excel, MATLAB, ArduPilot

Languages: English (Fluent), German (Intermediate)

PROJECTS

Aug 2025 – Present **Cabrillo College Robotics**, Aptos, California
- Led development of UAV platform including airframe design, simulation, and system integration
- Designed and tested UAV airframes using SolidWorks Flow Simulation and flight testing
- Simulated UAV designs and sensors using Gazebo Simulator and ROS2

Feb 2025 – Aug 2025 **3D-Printed UAV with Microcontroller-Based Flight Stabilization**
Developed and tested a custom STM32-based flight controller with integrated sensors and PID-driven stabilization algorithms.

May 2025 **Thermodynamics Gas Simulation using Python**
Created a particle-based simulation modeling gas behavior and temperature effects, visualized using Matplotlib.

May 2024 **RC Plane Physics Model with 3% error**
Built a Python model predicting RC aircraft thrust, drag, and lift with high accuracy compared to real-world data.

EXPERIENCE

Jun 2026 – Aug 2026 **Materials Science REU,** University of California Santa Cruz, California (*Upcoming, Summer 2026*)
Selected for NSF-funded Research Experience for Undergraduates program

Feb 2025 – Present **Physics Learning Center Tutor**, Cabrillo College, Aptos, California
- Assisted students in mastering complex physics and engineering concepts, enabling improved course performance
- Tutored students in physics and engineering coursework, including mechanics, circuits, and thermodynamics.

Feb 2023 - May 2025 **Computer Science and STEM Tutor**, Cabrillo College, Aptos, California
- Tutored students in provided C++, Python, MATLAB, RISC-V and Mathematics coursework
- Became the youngest CS tutor in Cabrillo College history at age 16.
- Explained programming and math concepts in one-on-one and small group sessions.

LEADERSHIP

2025 – Present Co-Founder & President, Cabrillo Robotics Foundation (Nonprofit)
2024 – Present President, Cabrillo Robotics Club