

MAXIMILIANO GRACIA AGUILAR

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SUMMARY

Electrical Engineering transfer student with a 4.0 GPA and Honors designation. Experienced in embedded systems, product design, and sensor-driven automation. Spent 9 months studying abroad in Munich, Germany, demonstrating international adaptability and cross-cultural communication. Multilingual in Spanish, English, German, and French. Passionate about semiconductors, microelectronics, robotics, and energy systems.

EDUCATION

B.S. Electrical and Computer Engineering, UC Berkeley, Berkeley, CA Expected 2028

A.S. Mathematics and Physics, San Diego Mesa College, San Diego, CA May 2026

GPA: 4.0 | Honors Society Designation | Student Athlete – Swim and Dive | Valedictorian

Relevant Coursework: Multivariable Calculus, Linear Algebra, Differential Equations, Classical Mechanics, Electromagnetism & Circuit Analysis, Modern Physics, Optics & Waves, CAD, C++

EF Language Abroad | Munich, Germany (9-Month Immersive German Language Program) 2024

TECHNICAL SKILLS

Software: SolidWorks, C++, Python, HTML, CSS, JavaScript, LaTeX, Excel, GitHub

Hardware: Arduino, ESP32, Embedded Systems, Robot Learning

Fabrication: 3D Printing, CNC Machining, Soldering, Multimeter Operation, UV Printing, Laser Cutting

Languages: Spanish (*Native*), English (*Fluent*), German (*Bl.I*), French (*Read/Write*)

EXPERIENCE

Product and Design, Treobytes, San Diego, CA Jan 2026 – Present

- Engineered multiple projects including a self-locking door system, interactive learning modules for teaching automation to underrepresented communities, and a distress beacon simulator with an assembly guide and learning program.
- Developed CAD schematics and product documentation supporting iterative prototype development and design refinement. Spearheaded the manufacturing and production of over 80 individual products.

Physics Peer Mentor, San Diego Mesa College Jan 2026 – May 2026

- Provide individualized mentorship in Mechanics and Electromagnetism, designing custom study plans and facilitating group learning sessions. Specialized in one-on-one learning scenarios.

Lifeguard I, City of Coronado, Coronado, CA Oct 2024 – Jan 2026

- Monitored aquatic facilities and responded to emergencies applying first aid, CPR, and water rescue protocols

ACTIVITIES AND LEADERSHIP

President and Founder, Mesa College Red Cross Club, San Diego, CA 2024 - Present

- Founded and led community initiatives including blood drives, food drives, and beach cleanups in partnership with the San Diego Food Bank, Surfrider Foundation, and American Red Cross

Design & Manufacturing Job Shadow, Nissan Design Center, San Diego, CA 2023

- Observed full automotive product development pipeline spanning color design, 3D modeling, CNC clay modeling, mechanical engineering, and marketing