

# Maximilian Even

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## EDUCATION

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**Harvey Mudd College**, Claremont, CA

*Expected—May 2028*

*B.S., Engineering—Concentration, Economics*

*Major GPA: 3.58*

Universidad Carlos III de Madrid / IES Abroad, Madrid, Spain

*Forthcoming—Fall 2026*

Engineering coursework; Electronics Engineering, Fluid Mechanics

### Honors and Awards

*Dean's List—Spring 2025, Fall 2025, Spring 2026*

### Relevant Coursework

Continuum Mechanics; Materials Engineering; Experimental Engineering; Differential Equations; Linear Algebra; Applied Mathematics for Engineering; Probability & Statistics; Electromagnetic Theory and Optics

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## SKILLS

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**Tools:** SolidWorks, COMSOL, LabVIEW, GitHub

**Hardware:** Mill CNC, Shop Bot, Waterjet, Lathe, Laser Cutter

**Languages:** Python (NumPy, pandas, SciPy), MATLAB, C/C++, Assembly, R

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## PROJECTS

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**Autonomous Underwater Vehicle—Harvey Mudd College**

*January 2026–May 2026*

- Built and field-deployed a waterproof AUV system to profile pressure, temperature, and pH vs. depth at Dana Point Pier across 14 field trials, reaching 3.5m depth with hydrostatic pressure validation.
- Designed MCP6002 op-amp signal-conditioning circuits for three sensor subsystems (MPX5700 pressure, thermistor, glass-electrode pH), each with buffering, gain, and offset stages to fit the Teensy's 0–3.3V ADC range.
- Programmed Teensy microcontroller firmware for 10Hz multi-channel data logging; wrote MATLAB calibration scripts to convert raw voltage outputs to physical quantities and generate depth-profile plots.

**Brachistochrone Race—Harvey Mudd College**

*March 2025–May 2025*

- Designed and fabricated a 3-curve brachistochrone demonstration through 3 iterative prototypes (3D-printed PLA → laser-cut plywood → CNC-machined MDF), each validated before scaling up.
  - Confirmed cycloidal curve as theoretically optimal path: 0.70s average vs. 0.82s (20th-degree polynomial) and 0.90s (linear) across 5 timed trials; results matched theoretical predictions with <3% inter-trial variance.
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## WORK EXPERIENCE

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**Machine Shop Proctor—Claremont, CA**

*August 2025–Present*

*Harvey Mudd College*

- Instruct students on safe and effective use of machine tools, including lathes, mills, and laser cutters.
- Apply physics and engineering concepts (torque, stress-strain, tolerancing) to projects for students and research.
- Supervise student engineering projects from design through fabrication, conducting design reviews, tolerance analysis, and material selection consultations.

**Treasurer—Claremont, CA**

*May 2025–Present*

*Associated Students of Harvey Mudd College*

- Manage \$400,000+ annual budget across 130+ student organizations, building Excel forecasting models to project expenditures and eliminate chronic overallocation.
- Reduced annual spending by 37% through structural budget reforms, eliminating a projected shortfall inherited from prior administration.

**Delegate—Villars Institute, Switzerland**

*June 2023–July 2023*

- Presented systems-thinking approach to carbon neutrality at international climate symposium.
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## ATHLETICS

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*Second-Team All-American—NCAA Division 3 Track & Field*

*National Qualifier & All-Region—NCAA Division 3 Track & Field*