Adam W. Gil

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EDUCATION

Loyola Marymount University **Los Angeles, CA**
Bachelor of Science in Electrical Engineering August 2023 – Present
GPA 3.19 | Expected Graduation: May 2027.
Relevant Coursework: Microprocessors, Electronics, Computer Programming, Signals & Linear Systems, Digital Systems, Junior Lab, Electromagnetics.
PEEC Living Learning Community: Lived in a STEM-focused residential cohort with weekly engineering seminars and visits to facilities including the Mount Wilson Observatory
LMU Entrepreneurship Certificate Program: Designed an AI-driven food delivery business model using dietary data to optimize grocery selection and meal planning
LMU Club Ice Hockey Team: Maintained full engineering course load while training, traveling, and competing in a collegiate club athletics program

TECHNICAL SKILLS

Programming

- ARMSim: Wrote I O routines in Embest C to interface with simulated microcontroller peripherals
- C: Experimenting with digital signal processing techniques, including implementing and testing IIR filters
- Python: Built a 2D Pong game with collision detection and motion physics
- MATLAB: Solved and simulated differential equations using numerical integration methods
- Java: Developed custom shark game using collision detection between objects

Design

- Circuit Design in Multisim: Designed and simulated DC and AC circuits and verified gain, bias points, and frequency response
- CAD Design: Modeled a multi-component mechanical clamp and produced manufacturing drawings in SolidWorks and Fusion 360

Lab & Hardware

- Measured amplifier gain, cutoff frequency, and waveform distortion using oscilloscopes and NI-ELVIS
- Built and debugged breadboarded analog and digital circuits
- LabVIEW: Designed and programmed a diode I-V curve tracer to measure current-voltage characteristics

Software Proficiency

- VS Code, Git Hub, Google Colab, iOS & macOS User Interface & Apple Ecosystem, Microsoft Office Suite

Languages

- Fluent in Polish & English, basic Spanish

PROJECTS

Pi Car Pro Autonomous Robotics System

- Built a Raspberry Pi based robotic vehicle integrating servo motors, GPIO, and onboard sensors
- Developed Linux and Python based real time control with PWM motor drivers and UV based line tracking

Circuit & Systems Design Projects

- Built and characterized a voltage divider biased common emitter transistor amplifier, verifying bias stability, gain, and frequency response using oscilloscope and NI ELVIS instrumentation
- Modeled and tested a second order RLC system and analyzed transient behavior, resonance, and bandwidth through time and frequency domain measurements
- Designed and implemented sequential logic and state machine based digital systems, verifying correct operation through simulation and hardware level testing
- Developed an op amp-based voltage regulation circuit to provide stable, low noise power for electronic subsystems

EXPERIENCE

Loyola Marymount University, Electrical & Computer Engineering Lab **Los Angeles, CA**
Introduction to Engineering Lab Teaching Assistant August 2025 – Present

- Supported laboratory instruction by setting up and maintaining electronic instrumentation and test equipment
- Led four lab sections of 34 students through circuit debugging, waveform analysis, and oscilloscope-based measurements
- Evaluated lab reports and provided technical feedback to reinforce core electrical engineering concepts

Loyola Marymount University, Mathematics Department **Los Angeles, CA**
Calculus Grader August 2025 – Present

- Evaluated and graded coursework for two Calculus sections, ensuring accuracy and consistency in assessment
- Maintained organized academic records and supported faculty with timely feedback to students

Loyola Marymount Conference and Events **Los Angeles, CA**
LMU Scheduling Office Assistant August 2023 – August 2025

- Coordinated scheduling and logistics for more than one thousand campus events using Mozevo and internal systems
- Communicated daily with clients to support room assignments, event setups, and operational requirements