Daniel O'Neill

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Education

University of Southern California — Los Angeles, CA
BS Industrial & Systems Engineering — May 2025

Experience

Outlier — Remote
Freelance AI Training for Mathematics — July 2024 - Present

- Help to create generative AI models that are helpful, accurate, clear, and safe by creating challenging prompts, writing responses, and solving complex math and math reasoning problems.

Postfly — Newbury, MA
Fulfillment Team Member — November 2021 - January 2022

- Developed and implemented effective SOPs and utilized inventory management systems to optimize the organization, packaging, and shipping of thousands of subscription fly fishing boxes.

STEM To The Future — Los Angeles, CA
Student Intern — November 2018 - May 2019

- Visited local elementary schools to work with minority youth to be creative critical thinkers who use STEM to develop solutions to real world problems such as climate change, public safety, and poverty.

Restaurant and Customer Service Experience — Various Locations
Waiter, Barback, Busser & Consultation Role — August 2015 - Present

- Achieved top sales performance by successfully upselling menu items, collaborated with the owner to implement workflow strategies, gaining insights into restaurant mgmt, financial transactions, and quality control, while optimizing shift scheduling and streamlining order processing to reduce wait times.

Skills

Languages/Applications:	C, C++, Python, SQL, CAD, SAP, Arena, Maya 3D Modeling
Industrial Engineering Concepts:	Deterministic & Stochastic Models, DBMS, ERP Systems, Human Factors
Relevant Coursework:	Materials Sci., MFG Processes, Embedded Systems, Statistical Analysis

Projects

F. Gaviña & Sons, Inc. *Production 360, Salesforce Integrations*
Partnering with F. Gaviña & Sons, Inc. through a year-long USC senior design project to streamline inter-department communication and service call workflows by leveraging Salesforce for task management, Oracle for service request documentation and invoicing, and Production 360 for sales data insights and customer communications.

Arduino Thermostat *Embedded Systems, C*
Built a thermostat similar to ones that are installed in most homes using an Arduino microcontroller and C programming. The user can set hot and cold thresholds and the device will monitor the room temperature and control heating and air conditioning devices based on the desired temperatures set on the thermostat.

3D Animated Jeep Cherokee Clip *Maya, Python*
Used learned techniques of modeling, animating, texturing, rendering and visual effects to create an animated 3D movie clip of a 1999 Jeep Cherokee to scale in Maya Autodesk. Utilized custom Python scripts to convert rendered images into movie clips.

360° Auto-Sealing Water Bottle Lid Development and Market Analysis *Fusion 360, FDM*
Developed a 360-degree drinking radius water bottle lid with an auto-sealing mechanism using Fusion 360 and FDM 3D printing technology. Conducted market analysis and user surveys to inform design decisions, gaining proficiency in collaborative virtual work, advanced CAD modeling, and rapid prototyping techniques to create a market-ready product.

Awards

James Rokas Leadership Award — Massachusetts Association of Student Councils
Recognizes individual students for both achievement and potential in their student leadership experiences, and is presented at the MASC State Leadership Conference. Selected from over 1,000 high school students.

Cammett Engineering Scholarship — W. C. Engineering
Awarded to a graduating senior who demonstrates great potential in the engineering and technology industry. ($30,000)