

Matthew Wiecking

(805) 319-0936 □ mwieckin@calpoly.edu □ [linkedin.com/in/mwiecking/](https://www.linkedin.com/in/mwiecking/)

Project Portfolio: <http://m.kamuella.org/>

Education

California Polytechnic State University, San Luis Obispo

Bachelor of Science in **Computer Engineering**, December 2026

Skills

Programming Languages: : C++, Python, SystemVerilog, HTML, SQL

Hardware Testing Devices: Function Generator, Digital and Analog Multimeters, Oscilloscope, DC Power Supply, Op Amp Circuit Board

Applications: VSCode, Visual Studio, PyCharm, Vivado, Microsoft Word, Excel, PowerPoint

Statistical Analysis: ANOVA, Singular and Multiple Regression, Correlation, Time Series, Forecasting, Enumerative Data, Hypothesis Testing

Computer Engineering Experience

Quantitative Stock Market Application

June 2024 – Present

- Used Python language to develop an OOP-based application using quantitative analytical methods and machine learning
- Implemented a comprehensive GUI with CustomTkinter to provide user-friendly access to real-time stock data and analysis tools.
- Designed and deployed machine learning models to generate buy/sell recommendations, improving decision-making efficiency and investment performance, as well as backtesting and weighted predictions.

Independent Contractor

March 2020 – Present

- Installed/maintained several network units for C-Suite individuals using UniFi hardware and software
- Conducted comprehensive network assessments to identify and resolve performance issues, enhancing overall system efficiency.
- Provided personalized on-demand technical support and maintenance, ensuring ideal network operations and client satisfaction.

Sound Design Software

January 2021 – Present

- Constructed several software projects using Delphi and Assembly for FL Studio for professional quality sound engineering and design.
- Achieved significant commercial success, generating over six figures in net revenue from a diverse customer base across the United States.
- Delivered high-quality software solutions that met the evolving needs of thousands of users, enhancing their music production capabilities.

Leadership and Work Experience

Tutor (15 to 20 hours per week)

August 2022 – Present

- Provided expert guidance as a Computer Science and Python coding tutor, helping students understand programming principles and assisting them in building their own applications.

Hawaiian Club – Cal Poly

- Active member of the Hawaiian Club, contributing to cultural events and initiatives that promote Hawaiian traditions and foster community engagement.