

Weston Mauz

Engineer | Computer Scientist | Leader

Mechanical engineer with professional experience applying computer science to build & implement data-driven solutions

Experience

Samsung Austin Semiconductor

Austin, TX, USA | On Site | Full Time | January 2023 → Present

Systems Engineer II

Developed a full-stack data governance system for manufacturing equipment asset management. The system continuously manages 5000+ pieces of equipment and is comprised of a web application, centralized relational database, API, cron jobs, & business intelligence dashboards. Won the president's award for successful integration of digital transformation in the company. Currently developing further solutions in predictive maintenance & automation.

Chiller Engineer I

Sponsored three vendors to drive continuous improvement of the 24/7 chiller operation in the manufacturing facilities. Applied data science, data engineering, data analytics & software development to build an end-to-end solution to equipment management. Built an automated leak detection software that reduced chiller coolant usage & engineered a business process to proactively replace end-of-life parts, resulting in a combined >\$300,000 annual cost savings. Performed multiple reliability analysis studies for future equipment management improvement.

Taiwan Semiconductor Manufacturing Company

Tainan, Taiwan | On Site | Full Time | March 2021 - April 2022

Equipment Engineer

Sponsor of atomic layer deposition furnace tools for 5nm semiconductor manufacturing process. Worked with Taiwanese engineers to deliver continuous improvement of the equipment.

Wunderman Thompson Mobile

Denver, CO | On Site | Full Time | August 2019-May 2020

Associate Software Developer

Part of an agile team engaging in iOS development: features, bug fixes, core data, & networking.

Education

California Institute of Technology

Certificate in AI & Machine Learning | January 2023

Utilized modern tools to process data, build models, & apply them to real-world problems. Course work included: applied data science with python, machine learning, & deep learning.

Colorado School of Mines

Bachelor of Science in Mechanical Engineering | May 2019

Engineering, mathematics, computer science, physics, machine design, fluid mechanics, chemistry, & heat transfer.

Skills

Software Development
Data Science
Data Engineering
Data Analytics
Python | C++ | SQL
HTML | CSS
MacOS | Windows | Linux
Learning | Leadership
Technical Writing
Organization
Lean + Six Sigma