

Dominique Taylor

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EDUCATION

University of Utah – The John and Marcia Price College of Engineering

Salt Lake City, UT

Degree: Bachelor of Science in Chemical Engineering | **Emphasis:** Biochemical engineering

May 2027

Minor: Chemistry

Southern Utah University (SUU)

Cedar City, UT

Focus: Chemistry & Mechanical Engineering

August 2024

SKILLS

Technical: Python, MATLAB, Machine Learning, Microsoft Office

Certifications: Microsoft Word, Excel, PowerPoint, SolidWorks CSWA

Languages: Persian (intermediate)

RELATED EXPERIENCE

SUU AI&ML Lab

Cedar City, UT

Lab Technician

February 2024-August 2024

- Worked in a newly developed SUU teaching lab designed to prepare students for engineering-related positions that require AI, ML, and AST knowledge and skills
- Designed five different systems, ranging from predictive maintenance to controlling environments (such as airflow), used by students to test their models and evaluate the efficacy of their approaches
- Assembled and prepared four robots used by students completing computer vision projects

Machine Learning in Mechanical Engineering

Cedar City, UT

Student

May 2024

- Committed 5+ hours per week during a mechanical engineering course to design a system that could be implemented in a real-world application
- Developed a system that collects a series of crucial variables, including mass airflow (physical sensor) and optimal fuel ratios (calculated value), that can help maintain optimal performance of carbureted car engines driven during extreme environmental changes (e.g. cold/hot weather and high/low elevations) and achieved an R^2 score of 98.36% with a 2.96 root mean square error

WORK EXPERIENCE

University of Utah Custodial Services

Salt Lake City, UT

Student Custodian

October 2024-Present

- Work 20 of hours per week maintaining the cleanliness of the university's student union building which serves students, faculty, staff, alumni, and guests, and houses multiple service providers on campus
- Clean and maintain offices, bathrooms, and common areas, ensuring the building meets UOSH standards for safety and sanitation and is ready for events and activities attended by hundreds of people each day

Swann Technology (OBSM/EPIK)

Cedar City, UT

Bench Technician

August 2018-March 2019 and April 2021-February 2023

- Performed complete assembly (from raw materials, quality testing, to shipping the product) for a POTS solution designed to help customers transition from outdated/unreliable telephone lines to a cost-effective, smart Managed Facilities-based Voice Network product and system
- Worked as part of a small team to produce 1000+ units per month and trained 6 new technicians as the company scaled its operation

ADDITIONAL INFORMATION

Contract Work: Create marketing materials using modeling/video technology for a client launching a large housing

development who needs to communicate with investors, construction companies, city/state officials, and home buyers

Volunteer Work: Served a two-year volunteer mission for the Church of Jesus Christ of Latter-day Saints in Los Angeles, CA, working with refugees to improve their English language proficiency so they could seek employment