

Emmuelle Ejanda

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EDUCATION

University of California, Berkeley
BS, Materials Science and Engineering

Aug. 2019 – May 2023 (Expected)
Berkeley, CA

WORK EXPERIENCE

Marvell Nanofabrication Laboratory
Process Engineering Assistant

Mar. 2021 – Present
Berkeley, CA

- Conducted monthly Tystar furnace CVD & LPCVD quality monitors
- Operated ellipsometers, plasma etchers, and surface charge analyzers for wafer processing and testing
- Characterized AccuThermo Rapid Thermal Processing behavior and developed standard quality monitor
- Managed company process specification sheets for lab members and staff

Pilipinx Association of Scientists, Architects, and Engineers
Internal Vice President

Aug. 2019 – Present
Apr. 2022 – Present

- Oversaw organization goals and implemented plans to achieve them
- Developed yearly event schedule, including industry talks, alumni panels, and general meetings
- Adapted curriculum for PASAE led Asian American Studies field studies course (ASAMST 197)
- Ensured timely and effective communication between program interns and members

Wellness Coordinator

May 2021 – Apr. 2022

- Facilitated workshops promoting overall wellness for community members
- Organized fundraisers and raised over \$3000 toward organization funds
- Compiled a list of local resources for physical, mental, and emotional health for organization members

PROJECTS

Titanium Dioxide Toxicity Identification

Mar. 2022

- Designed and implemented lab experiments to measure levels of TiO_2 in powdered makeup
- Utilized scanning electron microscopy (SEM) and performed Energy Dispersive Spectroscopy (EDS) to identify chemical components
- Discovered inconsistencies with TiO_2 labeling across makeup brands, including detection in makeup that did not list TiO_2 as an ingredient

Steel Microstructure Analysis

Oct. 2019

- Performed thermochemical analysis on steel to study the effect of heat treatment on mechanical properties
- Used basic metallurgy and metallographic etching skills to analyze steel microstructures

SKILLS

- Thermo-Calc, Mathematica, MATLAB, Python, Autodesk Inventor