YASH MEHTA

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EDUCATION

University of California, Berkeley *Aug 2014 - May 2019*
M.S. in Mechanical Engineering (May 2019) *GPA: 3.85*
B.S. in Mechanical Engineering, Materials Science & Engineering (Aug 2018) *GPA: 3.52*

WORK EXPERIENCE

Intel Corporation Dec 2019 - Present
Process Engineer - Lithography CD-SEM Group Hillsboro, OR

- Led cross-functional teams that won three department awards for installing a new metrology tool platform, implementing a first-of-a-kind measurement technique, and reducing overall recipe run times.
- Partnered with frame designers to develop key features for in-die, post-litho, and etch measurements.
- Collaborated with the CD-SEM tool vendor to design a novel approach for mitigating surface charging effects and measuring critical backside power delivery layers, resulting in a 25% failure reduction.

KLA Corporation May 2018 - Dec 2018, May 2017 - Aug 2017
Applications Engineering Intern Milpitas, CA

- Streamlined the Request for Quotation (RFQ) handling system for new inspection tools through a data-driven graphical user interface (GUI), thereby lowering the average response time by 75%.
- Optimized image analysis toolkits for a Direct Metal Laser Sintering (DMLS) 3D printer using Python, JMP, and ImageJ, consequently improving time-to-results for the in-situ monitoring package by 40%.

California Institute for Quantitative Biosciences (qb3) Jan 2016 - May 2016
Product Design Intern San Francisco, CA

- Built a prototype ear dropper in collaboration with the UCSF Department of Otolaryngology, that relieves irritation in the ear canal and uses FDA-approved biocompatible materials.
- Engineered a precision fluid storage, control, and delivery system to reliably administer a high-cost topical solution to the outer ear canal without leakage or spillage.

RESEARCH EXPERIENCE

Fluoride Water Lab May 2016 - Dec 2018
Undergraduate Researcher, Advisor: Prof. Ashok Gadgil Lawrence Berkeley National Lab, CA

- Co-recipient of the 2016 R&D 100 Award for SAFR (Sustainable & Affordable Fluoride Removal). It is an innovative and low-cost technique to remediate excessive fluoride from groundwater sources.
- Developed self-operating sample preparation and testing procedures such as pH, flow, time, weight, dilution, and turbidity measurements using custom 3D printed parts and an Arduino.

Design for Nano-Manufacturing Lab Jan 2016 - May 2016
Undergraduate Researcher, Advisor: Prof. Hayden Taylor Berkeley, CA

- Designed an optical "*nano-caliper*" system for real-time resist metrology and viscosity calculations.
- Created the SOP for photo-lithographic sample preparation, measurement technique, and data analysis.

TECHNICAL SKILLS

Equipment Training: SEM, XRD, CAD (SolidWorks), 3D printing (polymers & metals)
Programming: MATLAB, Python, JMP, C/C++ (Arduino), ImageJ, LaTeX