Priya Patel

Materials Science Engineer

priya9598@gmail.com	(510)-921-1772
priya9598@gmail.com	(510)-921-1772

linkedin.com/in/priya9598

EDUCATION

Materials Science and Engineering (B.S.),	, Mechanical Engineering Focus	
University of California, Davis		

...

PUBLICATIONS

First-author publication: Priya P. Patel, et al. "Dynamic Vapor Sorption and Moisture Capacity of Polymers" (LLNL, 2019)

PROFESSIONAL EXPERIENCE

Lawrence Livermore National Laboratory (LLNL)	Jun. 2019 - Sept. 2019
Materials Science R&D Intern	Livermore, CA
 Developed MATLAB/Python-based optimization code to analyze the moisture isotherm to 	
 Launched complex and user-friendly database using Python and Java for team's materia 	
 Modeled 3D simulations to determine effect of temperature, humidity, thickness on diffus 	
OSRAM Opto Semiconductors	Dec. 2019 - Current
Senior Design Project Lead	Sunnyvale, CA
Spearhead team of students to find low-temperature epoxy to reduce VOC contaminatio	
Manufacture and assemble aluminum nitride chips onto Kyocera ceramic sockets, while	
Coordinate design specs with OSRAM, write proposals, present research at UC Davis S	
UC Davis Materials Characterization Lab	Feb. 2018 - Current
Lab and Research Assistant	Davis, CA
 Utilize physical vapor deposition to create thin film coatings to improve hardness/wear re- 	esistance of material
 Apply high-resolution x-ray diffraction, SIMS depth profiling, and TEM to probe surface of 	of material
Quantitatively inspect properties of silicon/semiconductors for failure analysis, fracture, or	creep behavior
UC Davis Department of College of Engineering	Sept. 2017 - Jan. 2019
Website Developer and Writer	Davis, CA
Designed, coded, and debugged the UC Davis College of Engineering website in Linux s	svstem
Worked with other IT assistants to code and develop quality web content and design	- ,
 Updated website with information and photos of current engineering events and ongoing 	research
Engineers Without Borders	Oct. 2017 - Jun. 2018
Indonesia Project Lead	Davis, CA
 Administered the restoration of existing water distribution system in village Dusun Sogra 	
 Collected data regarding current water system, developed and implemented finance and 	
Applied engineering background and economic skills to assess sociocultural framework	or foreigh country
SKILLS	
Proficiency in coding languages (MATLAB_Python_Java) 3D CAD_SolidWorks Lean 5	Six Sigma Microsoft Excel

y in coding languages (MATLAB, Python, Java), 3D CAD, SolidWorks, Lean, Six Sigma, Microsoft Excel

- Technical lab experience: optical microscopy, wet processing, etching, lithography, mechanical testing
- Leadership, communication, creative problem-solving, critical thinking, adaptability, team player, fast-learner

EXTRACURRICULARS

Society of Women Engineers (SWE)	Nov. 2016 - Curren
National organization member	Davis, C

Attend monthly STEM conventions and interact with companies in the engineering industry Host Project Aspire: introduce young girls to the world of tech and engineering careers

UC Davis Raasleela

Captain .

- Manage logistics, finances, choreography, and production for nationally-competing university dance team
- Communicate with competition boards to meet deadlines efficiently and with team to ensure smooth practices .

AWARDS AND RECOGNITIONS

Global Engagement Award - Awarded by UC Davis Division of Student Affairs to Engineers without Borders project leads for outstanding global impact and promoting cross-cultural awareness 2018 Achievement Award - Recognized by MASC for exemplary innovations/participation in Materials Eng.

Expected: Jun. 2020

nt CA

Sept. 2016 - Current

Davis, CA