Wai Hnin Oo

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Education

Ph.D. Mechanical Engineering, University of California, Merced	2019 - Present
B.Sc. Mechanical Engineering, University of California, Irvine	2017 - 2019
Community College: Skyline College, San Bruno	2015 - 2017
Awards and Honors	
National Science Foundation, Graduate Research Fellowship Program (NSF GRFP)	2020
Magna Cum Laude Honors, University of California, Irvine	2019
Regents Scholar, University of California, Irvine	2017 - 2019
American Association of University Women (AAUW) Scholarship, San Mateo Division	2017

Don Biederman Scholarship, Skyline College, Science, Math & Technology Department 2017

Research Experience

Project: Exploring the physical limits of structural superlubricity via atomic force microscopy (AFM) **Technical skills**: atomic force microscopy (AFM), scanning electron microscopy (SEM), transmission electron microscopy (TEM), X-ray photoelectron spectroscopy (XPS), Gwyddion software, OriginLab software, MATLAB, Microsoft Excel **Lab:** Baykara Lab @ UC Merced | NanoTribology

Funding: National Science Foundation, Graduate Research Fellowship Program (NSF GRFP)

Work Experience

Graduate Teaching Assistant (2 semesters) University of California, Merced	Aug 2019 - May 2020	
Supervised undergraduate lab sessions for <i>Circuits Theory</i> (Fall 2019) as (Spring 2020)	nd Mechanics of Materials	
Summer FABcamp Counselor (4 months) University of California, Irvine	Apr 2018 - Jul 2018	
Led introductory OnShape CAD and circuits laboratory activities for 6-9th grade campers		
Engineering Intern (3 months) Smithsonian Institution, National Air and Space Mueum Restored the engines of the Goodware Plimp Condels under the supervisio	Jun 2017 - Aug 2017	
Restored the engines of the Goodyear Blimp Gondola under the supervision of restoration specialists		
Supplemental Instruction Leader (10 months) Skyline College	Aug 2016 - May 2017	
Developed and led weekly workshops to complement historically challenging physics courses in com- munity college		
Physics/Math Peer Tutor (1 year 5 months)	Jan 2016 - May 2017	
Skyline College		
Tutored a diverse range of students at different levels, with different learning styles, and from different backgrounds in community college		

Undergraduate Technical Projects

Flapping Wing Micro Air Vehicle (FWMAV)	University of California, Irvine	
Mechanical Design Team Lead (1 year) Jun 2018 - Jun 2019 Led a team of seven members to design, fabricate, and optimize a novel FWMAV actuating mech- anism		
Documenting Manager (4 months)	Mar 2018 - Jun 2018	
Purchasing Manager (4 months)	Mar 2018 - Jun 2018	
Physics Honors Projects	Skyline College	
Poster presentations given at Skyline College Research Symposium 2016 and 2017		
Rayleigh Benard Convection Conducted experiments to measure the onset of Rayleigh Bena	Spring 2017 ard Convection in corn oil	
Homemade Van de Graaff Generator Built a three-foot Van de Graaff generator from scratch for \$6	Spring 2016	
Other Experience		
Youth Society for Education Nonprofit Organization		
Content Creator (4 months)	Mar 2018 - Jun 2018	
Social Media & Networking Intern (6 months)	Sep 2017 - Feb 2018	
Phi Theta Kappa Honor Society Skyline College Chapter		
Vice President of Records (10 months)	Aug 2016 - May 2017	