MEGAN LIM

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909 539 5140 YouTube Channel

EDUCATION

UC Berkeley. **2016 - 2019.**
B.S. in BioEngineering.
Some Fav Coursework: Organic Chemistry. Quantum Mechanics. CS Programs. Linear Algebra. BioNanoscience. Chemical Biology. Material Science. Drug Delivery. Machine Learning for Chemistry. Computational Biology.

Troy High School. **Class of 2016.**
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EXPERIENCE

Merck Computational Chemistry (Jun 2020). **South San Francisco.**
- Incoming in Merck Research Labs within the Computational and Structural Chemistry group.

Genentech Pharma Technical Operations (Jan - Jun 2020). **South San Francisco.**
- Evaluating and automating different flow controllers used in Pilot Plant large scale operations for PIT runs and Glucose additions.
- Developing web-based application with database backend for the various bioreactors in the Pilot Plant.
- Developed website to host my weekly written articles published within the Roche network.
- Made it on soccer team to represent Genentech USA in global tournament in Switzerland this summer(if COVID-19 permits).

Art of Problem Solving Grader (Jan 2020 - Present). **ChemWOOT.**
- Grade problems for Chemistry World Online Olympiad Training.

Computational Ochem Research Intern (Jun - Dec 2019). **Prof. Ken Houk, UCLA.**
- Performed quantum mechanical calculations to study role of a sugar derivative in transferring stereochemical information in the Diels-Alder reaction.

Medium Writer & Editor (2016 - Present). **60+ articles published.**
- Writer for 3 of Medium's Top 5 publications: The Mission, The Startup, The Writing Cooperative.
- Top stories: Kalman Filters, Education, Chaos, Molecular Orbital Diagrams.

NASA Tech Intern (Jun - Aug 2018). **NASA Ames Research Center.**
- Focus: Diagnostics and Prognostics (D&P) Research Group algorithms.
- Outreach: Presented project, The Kalman Kick, at NASA Intelligent Systems Division showcase among 5 other selected interns. Interviewed for Kiwoba Allaire's Girl STEM Stars video.
- Supported D&P Open-Source software release: Designed and compiled an example system model in C to be included in the Diagnostic Reasoner (DR) algorithm software release.
- Technical writing: DR software user manual, Prognostics Metrics Library Github wiki, and Generic Software Architecture for Prognostics (GSAP) 19 pg wiki.

OUTREACH

Disabled Student Note Taker (Aug 2016 - 2019). **UC Berkeley.**
- Hired to take clear notes for disabled students for Physics, Computer Science, UpperDiv Ochem, BioE departments.

Society of Women Engineers (SWE) Outreach Committee (2018 - Present). **UC Berkeley.**
- Science Saturday Instructor: teach engineering and science principles to middle schoolers. :)
- SWENext Mentorship: mentor and help high school student navigate high school and learn about college.

PROJECTS

Basement Physics, Visualizing Linear Algebra and Differential Equations. **May, June 2017.**
- Wrote and published physics and math books available for purchase on Amazon.com and Amazon Europe.

The Kalman Kick (July 2018). **NASA Intelligent Systems Division Showcase.**
- Inspired by the Summer 2018 World Cup, this program interprets user input of player parameters, calculates discrete time predictions based on the Kalman Filter algorithm, and generates visual images of the soccer ball's future state on a penalty kick.

SKILLS & INTERESTS

Technical Writing. Gaussian. Spartan. Python. HTML. JS. CSS. 3D Printing. Mouse perfusion.
Computational Chemistry. Drug Delivery. Soccer juggling. Half Marathons.