

Jeronimo Mora

+1 (510) 559-0113 | jeronimo@berkeley.edu | jeronimomora.com | [linkedin.com/in/jeronimomora](https://www.linkedin.com/in/jeronimomora)

Education

University of California, Berkeley

Berkeley, CA

M.S. Mechanical Engineering, Focus in Manufacturing and Computer Science

Expected: May 2018

Comp. Sci. Artificial Intelligence, Computer Graphics

Manufacturing Lean Manufacturing, Modeling of Mfg. Processes, Mech. Behavior of Materials

Achievements 2017 NSF GRFP Fellow, College of Engineering Department Award (F16, S17)

University of California, Davis

Davis, CA

B.S. Mechanical Engineering

Jun. 2016

Electives Mechanical Design (2 quarters), Materials Selection, Sustainable Power Generation, Probabilistic Systems

Achievements 2014-2015 American Honda HSF Scholarship, 2015-2016 John Eric Peckham Scholarship

Experience

Lawrence Livermore National Laboratory

Livermore, CA

Materials Engineering Division Intern

May 2014 - Aug. 2017 (Seasonal)

- Developed and pioneered new light-directed electrophoretic deposition (EPD) manufacturing techniques
- Developed software using Python to control 3D Printers and allow users to selectively cancel parts on the bed
- Wrote LabVIEW software to interface with hardware pumps and automate the EPD process
- Used SOLIDWORKS to design fixtures and adapters necessary for experiments
- Created the first draft of safety guidelines for a new microcapsule fabrication process
- 1st author of 2 papers currently in submission preparation, 2nd author of paper in Key Engineering Materials
- Inventor on 2 patents filed based on research I performed
- Presented work at a Materials Research Society conference in Phoenix, CA
- Work I performed presented by mentor in Hernstein, Austria and Gyeongju, South Korea

University of California, Davis

Davis, CA

Undergraduate Research Assistant II

Oct. 2015 - Jun. 2016

- Used confocal microscope to study height bifurcation of colloids in basic solution when subject to AC electric fields
- Prepared particle suspensions, measured their conductivities and pH

Laney College

Oakland, CA

Math Lab Tutor

Fall 2012 - Spring 2014

- Taught students organizational skills, course material, and effective methods to study.
- Tutored math from Arithmetic to Vector Calculus, and at times, Physics and Chemistry

Projects

Camera Interact

Berkeley, CA

Programmer

Spring 2017

- An interactive lesson and demo written in JavaScript and THREE.js aimed at teaching camera concepts

Embedded Sensors in Additively Manufactured Parts

Davis, CA

Experimentation and Simulation

Jan. 2016 - Jun. 2016

- Explored the feasibility of embedded sensors in 3D printed parts by comparing experiments to CAD simulations
- Created Wheatstone bridge circuit to measure internal strains in 3D printed beams using embedded strain gauges

Skills

Software Python, C++, MATLAB, SOLIDWORKS

Other Microsoft Office, Arduino, Additive Manufacturing, PolyJet 3D Printing, G-code

Languages English (Native), Spanish (Native), Italian (B1)