

Luis Alcazar

Napa, CA

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Education:

Oregon State University Ph.D. in Adult & Higher Education	September 2019 - Present
Association of California Community College Administrators Great Deans Program	July 2018 – June 2019
Raven’s Roots Naturist School (Sedro-Woolley, WA) Ethnobotany Immersion Course	August 2016 – June 2017
California State University, East Bay M.S. in Engineering Management	Fall 2015
University of California, Berkeley B.S. in Mechanical Engineering	August 2006
Napa Valley College Undergraduate Student in Mechanical Engineering	June 2002
Vallejo High School	June 2000

Work Experience:

Napa Valley College, Associate Dean, MESA/STEM Programs Napa, CA February 18- Present
Manage STEM grants and lead a team to provide STEM student services at Napa Valley College with an equity-minded approach. I seek and apply for funding to help support our programs, establish and maintain relationships with local industry, college faculty, and other college administrators, collaborate with other educational programs to better serve our students, compose MOUs for the work we do with our partners, provide professional development for our STEM students, and represent the college in STEM-related committees and conferences. I also serve on the college’s Equity and Inclusivity committee.

<u>Columbia Basin College, CC MESA Director</u>	Pasco, WA	July 15- June 17
<u>Columbia Basin College, K-12 MESA Director</u>	Pasco, WA	July 15- June 17
<u>WSU Tri-Cities, K-12 MESA Director</u>	Richland, WA	July 14- June 15

Managed two programs, the K-12 program that serves 1,200 K-12 students in three school districts in the lower Yakima Valley and in the Tri-Cities, as well as the community college MESA program that serves about 100 community college students at Columbia Basin College. I managed two coordinators, one retention specialist, and one administrative staff, as well as advised community college students interested in transferring in a STEM major. I wrote grants to help support our program, established and maintained relationships with local industry, school district and school administrators, some of which were represented on our advisory board, collaborated with other educational programs to better serve our students, composed MOUs for the work we do with our partners, gave parent workshops, provided professional development for our MESA teachers, and represented Washington MESA on a national committee and at conferences. I also directed a video on STEM careers in agriculture.

<u>CSU East Bay, MESA Assistant Director</u>	Hayward, CA	January 13- June 14
<u>CSU East Bay, Bechtel Grant Coordinator</u>	Hayward, CA	March 09- June 14
<u>CSU East Bay, MESA Academic Coordinator</u>	Hayward, CA	January 09- December 12

Working with High School and Middle School teachers and students to implement the program at over 30 school sites in the San Francisco Bay Area and the Sacramento metropolitan area. I plan MESA Day, a competition day for about 900 HS and MS students in engineering, math, and science. I assist in writing grants to provide funding for the program, writing reports, and composing MOUs for the work we do with various partners. I also assist the engineering department on many projects, from outreach to HS and Community Colleges to advising engineering clubs on campus and representing the college at various conferences and meetings. I also Coordinated an S.D. Bechtel Grant for a Model Community College Transfer Project. This grant focused on creating a model to increase the number of students transferring in engineering, as well as making the process easier to understand and more manageable to get through.

<u>Tuthill Corporation, Design Engineer</u>	Concord, CA	June 07- January 09
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Worked as a Design Engineer for the gear pump division of this company. I assisted and took on R&D, design, lean product development projects, as well as assisted customers with application problems and analyzing returned goods. I also lead projects that helped improve manufacturing processes, visual management, and communication within the company.

Owens-Illinois, Inc., Management Trainee Oakland, CA August 06- June 07
Worked as a Management Trainee in this glass bottle manufacturing company. I assisted and took on preventative maintenance, crew management, manufacturing process, energy management, and R&D projects. I also learned how management runs and how to solve manufacturing problems as they arose.

Nova Group, Inc., Engineering Intern Napa, CA June 04- June 06
Worked as an Assistant Engineer under four engineers. I assisted and took on R&D projects, as well as drafted the shop drawings, using AutoCAD 2006, for a variety of projects including some that were built at Pearl Harbor Naval Air Station, Nellis Air Force Base, and San Nicolas Island Outlying Field.

George Miller's Scholar, UC Berkeley Berkeley, CA Summer 03
Worked on the research topic: "The Feasibility of a Mechanical Bird to Fly in Realistic Patterns." I wrote a research paper and presented a poster board after completion. This project introduced me into the research world.

Math, Engineering, and Science Tutor Napa, CA Summer 01- Summer 02
Tutored college and high school students in math, engineering, and science courses taking into account their learning styles.

CAMP-MESA Summer Science Fellowship Program Santa Cruz, CA Summer 01
Worked on a team in the Homeless Garden project, as described in "Project Experience." Developed and/or enhanced skills, through coursework and program, in teamwork, time management, research methodology, networking, budgeting, and presentation.

FedEx San Francisco, CA Fall 00- Spring 01
Loaded and unloaded airplanes and trucks. Sorted packages. Experience with a forklift and airport vehicles.

Project Experience:

Fiji Water Sanitation and Distribution to Stem Typhoid Outbreak

- Designing and implementing a water sanitation and distribution system in Vanua Levu Island, Fiji to stem the typhoid fever outbreak and to improve their water flow in the villages.
- Educating the villages on water conservation and public health issues in the area.

Fire-Detection Robot

- Designed and built a robot that detects a flame, goes up to it, and puts it out. Won first place at the Design Expo.
- Machined parts using a drill press, a milling machine, a lathe, and other machine shop tools.
- Programmed the robot using C++ and implemented it using a Texas Instrument TMS320C6711 DSP (Digital Signal Processor) board

Homeless Garden Project

- Designed and built an outdoor kitchen for a homeless garden in Santa Cruz, Ca, that was safe, secure, and let in plenty of natural light during the day, for there is no electricity in the garden.'
- Worked closely with the client to present models and ideas, and made modifications accordingly.
- Worked around a tight budget and schedule. It was a great success.

Guest Lecture Experience: Descriptive Physics

I co-taught Physics 110 – Descriptive Physics (3 units) at Napa Valley College in Fall 2018.

Introduction to Engineering

I guest lectured to Introduction to Engineering courses at Chabot College, Los Medanos College, Las Positas College, and College of San Mateo.

STEM Parent

I guest lectured on how to be a STEM parent at the Migrant and Bilingual Parent Advisory Committee conference (in Spanish) in Pasco, the ESD 123 Title 1 Parent Conference in Kennewick, and at a MESA Director's meeting at UW.

Prototypes

I guest lectured on prototypes at a summer program at UC Berkeley, at an engineering course at CSU East Bay, at the Migrant and Bilingual Parent Advisory Committee conference (in Spanish) in Pasco, and at the Engineering Education Initiative Summit in Seattle.

Public Speaking Experience: MC at Chican@/Latin@ graduation at CSU East Bay, Alumni Speaker at NVC MESA Banquet, NVC Youth Leadership Conference, Speaker at Noche de Ciencias at Hayward High, Panelist at Ohlone College Raza Day, Speaker at Bergen Community College's Latino Heritage Week, Keynote Speaker at CSU East Bay's Breakthrough Latino event, Keynote Speaker at CSU East Bay's Youth Leadership Conference, MC at 10 MESA Day Competitions.

Conference Experience: I have gained much knowledge through my attendance at many conferences, and through speaking at some. These include conferences put on by NCORE, ACCCA, CCCCCO, SHPE, Regents' and Chancellor's Scholars, Engineering Liaison Council, SACNAS, PG&E, MESA, Phi Theta Kappa, Gamma Zeta Alpha, US News, and Puente.

Leadership Experience:

Umoja Mentor	Napa Valley College	August 19 - Present
Movimiento Cultural de la Union Indigena Board Member	Napa/Sonoma	January 19 - Present
California CC MESA Directors Executive Team Member	California	December 18 - Present
Equity and Inclusivity Committee Member	Napa Valley College	August 18 - Present
Puente Mentor	Napa Valley College	August 18 - June 19
SACNAS Chapter Advisor	Napa Valley College	August 18 - Present
SHPE Chapter Advisor	Napa Valley College	August 18 - Present
ACCCA Member	California	July 18 - Present
Napa County Hispanic Network Board	Napa, CA	June 18 - Present
In Lak'ech Youth Summit Planning Committee	Napa Valley College	February 18 - Present
Chicanx/Latinx Alumni Association Mentor	UC Berkeley	February 18 - Present
Engineers Without Borders Member	San Francisco, CA	February 13 - Present
Yakima-Morelia Sister City Member	Yakima, WA	April 15 - June 17
UGM Clinic Medical Interpreter	Yakima, WA	January 15 - June 17
TEDx Committee Member	Yakima, WA	November 14 - June 17
Engineering Education Leadership Initiative Partner	Seattle, WA	October 14 - June 17
Puente Mentor	Hayward High School	August 12 - June 14
Chican@/Latin@ Graduation Advisor	California State University, East Bay	Fall 10 - June 14
Chican@/Latin@ Graduation MC	California State University, East Bay	Spring 10, Spring 11
SHPE Chapter Advisor	California State University, East Bay	July 09 - June 14
Puente Mentor	Ohlone Community College	September 08 - June 09
Campbell Village Mentor	West Oakland	September 07-June 08
Miami AIDS Marathon Participant	National AIDS Foundation	September 06-September 07
Dean of New Membership Intake	Gamma Zeta Alpha Fraternity, Cal	Spring 04 -Fall 04
Co-Founder/Committee Member	RAZA Community Committee, Cal	Fall 03- Fall 04
Director of Philanthropy	Gamma Zeta Alpha Fraternity, Cal	Fall 03- Spring 04
Treasurer	UC Berkeley International House Council	Spring 03
YES Day Coordinator	Hispanic Engineers and Scientists, Cal	Spring 03, Fall 04
Conference Coordinator	Regents' and Chancellor's Scholars, Cal	Fall 02- Spring 03
President	Math, Engineering, and Science Achievement (MESA) Club, NVC	Summer 01-Spring 02
Vice-President	Phi Theta Kappa International Honor Society, NVC	Summer 01- Spring 02
Sergeant at Arms	Club Hispano Americano, NVC	Summer 01- Spring 02

Special Skills: Canvas, experienced traveler, Microsoft Office 2016, Microsoft Access, MatLab 6.0, AutoCAD 2010, SolidWorks 2010, Pro/ENGINEER, lean manufacturing, ISO 9000 experience, R&D experience, product testing skills, general computer applications, machining skills, instrumentation skills, organizational skills, planning skills, management skills, leadership skills, quick learner. EIT Certified.

Other Languages: Fluent in Spanish and know some P'urhépecha and Portuguese.

Awards: Warren Suzuki Legacy Scholar, Betty & Richard Duvall Community College Leadership Program Scholar, Outstanding Advisor Award, Regents' and Chancellor's Scholar, George Miller's Scholar, MESA/NSF Scholar, Hispanic Scholarship Fund Scholar, All-USA Academic First Team, All-California Academic First Team, Outstanding Tutor Award, Phi Theta Kappa Honor Society Member, ASME Member, California Scholarship Federation Scholar, Golden State Exam High-Honors, Jared Award.