David Angel Martínez

Education

University of Southern California: Ed.D. in Higher Education Administration, '07 **University of Southern California:** M.S. in Operations Research Engineering, '03

University of California, Berkeley: B.S. in Industrial Engineering & Operations Research, '01

Employment History

Jan. 2006 – Present College of the Canyons Santa Clarita, CA **Department Chair and Professor, Engineering & Physics Department:** Responsible for curriculum and program development within the Engineering and Physics departments. College-level courses taught include: Robotics, Statics, Materials of Engineering, Introduction to Engineering, Electrical Circuit Theory, Electricity & Magnetism, Waves & Optics, Introduction to Nanotechnology, and AutoCAD. Various roles include program review development, part-time and full-time faculty hiring committees, faculty evaluations, and student mentoring programs. Involved in Nanotechnology training on emerging technology equipment, nanotech course development and outreach.

Jan. 2013 – Present CSU, Northridge Northridge, CA **Lecturer, Manufacturing & Systems Engineering Department:** College-level courses taught include: Materials Science and Materials Science Lab.

Jan. 2011 – Present CSU, Los Angeles Los Angeles, CA **Lecturer, Mechanical Engineering Department:** College-level courses taught include: Dynamics and Strength of Materials. Students taught are Mechanical & Civil Engineering majors of Sophomore & Junior level standing.

Jan. 2005 – Jan. 2006 UC, Los Angeles Westwood, CA **Associate Director for Education & Outreach, Center for Scalable & Integrated Nano-Manufacturing (SINAM):** A National Science Foundation sponsored research center with a charge to develop next generation nano-manufacturing tools. Responsibilities include the promotion of nano-technology curricula at the K-12, community college, undergraduate, and graduate levels with an emphasis on minority student involvement. Current and completed self-initiated projects involve the development of a new nano-technology course at Los Angeles Trade Technical College, collaboration with UCLA's Center X to develop new nano-technology high school teacher modules, and the organization of an eight-week summer research academy for undergraduate and high school students.

May 2003 – Jan. 2006 University of Southern California Los Angeles, CA **Assistant Director, Center for Engineering Diversity:** Focus on the organization of retention activities and programs for undergraduate underrepresented minority engineers. Various roles include liaison between industry professionals and students, leader of professional & academic workshops, and organizer of engineering career networking events. Responsible for the hiring and curriculum development for Supplemental Instruction to provide students intensive workshops revolving around lectures and discussion sections for selected engineering courses. Organizer of summer campus immersion programs for incoming freshmen. Summer programs entail engineering course preparation, industry tours, and professional workshops. Counselor and mentor to incoming/continuing/transfer students on academic and professional levels.

Jan. 2004 – Dec. 2004 East Los Angeles College Monterey Park, CA **Professional Expert, EOP&S:** Responsible for the organization and teaching of math workshops for underachieving EOP&S (Extended Opportunity Programs and Services) and single-mother CARE (Cooperative Agencies Resources for Education) students. Levels of math taught include: arithmetic, algebra, statistics, trigonometry, calculus, linear algebra, math anxiety, and math preparedness.

Sep. 2002 – Dec. 2002 East Los Angeles College Monterey Park, CA **Physics Instructor/Mentor, MESA:** Employed by MESA (Mathematics, Engineering, and Science Achievement) to conduct Physics workshops for underrepresented community college students. Held office hours where students could drop by with math, computer science, and physics questions. Served as an academic advisor, helping students with their current engineering curricula and transfer applications to four-year institutions.

Previous Summer Employment

2010	Physics Instructor, College of the Canyons	S. Clarita, CA
2009	Engineering Instructor, East Los Angeles College	L.A., CA
2008	Engineering Instructor, Upward Bound, USC	L.A., CA
2007	Lead Instructor, Bernard Harris Summer Science Camp, USC	L.A., CA
2004	Mathematics Instructor, Jaime Escalante Math Program	L.A., CA
2002	Engineering Intern/Project Manager, ETS	Princeton, NJ
2001	Atmospheric Researcher, UCSD	La Jolla, CA
2000	Industrial Engineer, Ingram Micro	Millington, TN
1999	Operations Engineer, Boeing	L.A., CA
1998	MESA Mentor, UC Berkeley	Berkeley, CA
1998	Science Aide, Lawrence Hall of Science	Berkeley, CA

Professional Affiliations

Society of Automotive Engineers: membership since '06

Society of Hispanic Professional Engineers: leadership and membership since '97

Mexican-American Engineers & Scientists, USC: chapter advisor, '05

National Society of Black Engineers: membership since '97

Mathematics, Engineering, Science Achievement: USC, UCLA, & Laney College volunteer since '02

Center for Engineering Excellence & Diversity, UCLA: volunteer, '05

Multicultural Engineering Program, UC Berkeley: membership & volunteer since '97

Viterbi School of Engineering, USC: engineering scholarship and student ambassador panelist since '03

Industrial Engineering Honor Society, UC Berkeley: leadership, '99-'00

INROADS: engineering summer intern, '99-'00

GEM Consortium: graduate engineering fellowship recipient (full tuition and expenses), '02-'03

Technical Skills

MS Office, MS Visio; AutoCAD, SolidWorks, CATIA, MasterCAM; Fluent in the Spanish language; Computing languages: HTML, SQL, Java, and Matlab; Passed the California Basic Educational Skills Test (CBEST)

(References available upon request)