



CARMEN PACHECO

CHEMICAL ENGINEER

OBJECTIVE

I hope to advance my career in an organization that values innovation and safety and conducts business in a socially responsible manner. Looking forward to work alongside a collaborative team that values diversity and inclusivity where I can apply my skills in engineering design and data analysis.

SKILLS & ABILITIES

Microsoft Office, CAD-Onshape, Matlab, 3D Printing and Laser Cutting, Circuitry Analysis equipment, Minitab-ANOVA Analysis, Labview, Phidget Sensors and Python.

VITALS

5463 Pueblo PL, Boulder CO 80303

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[LinkedIn Profile](#)

EDUCATION

UNIVERSITY OF ARIZONA, CHEMICAL ENGINEERING, B.S. 1999

UNIVERSITY OF ARIZONA, CHEMICAL ENGINEERING, M.S. 2001

EXPERIENCE

UNIVERSITY OF COLORADO, BOULDER, CO

8/2010-PRESENT

Formerly Instructor, now Scholar-in-Residence. Regularly teach the following courses: First-Year Engineering Projects, Design for Sustainable Communities, Data Analysis, Chemistry for Energy and Material Science, Summer Chemistry course and Design of Coffee. Research interests include sustainable food engineering and engineering education. Awarded Marinus Smith Teaching Award, 2015. Outstanding Graduate Education Award, 2023.

CARMEN'S SALSA, LLC, BOULDER, CO

10/2014-PRESENT

Founder and Owner. A small local food startup that handcrafts authentic and artisanal molés and salsas. A passion driven project designed to raise awareness that Mexican food can be healthy, fresh and vibrant. Carmen's Salsa has been highlighted on Channel 9 News, the Denver Post, Boulder Daily Camera, Boulder Weekly, Yellow Magazine, Big Girl Money and Shoutout Colorado.

COLUMBIA UNIVERSITY, NEW YORK, NY

9/2009-5/2010

Adjunct Professor. Taught the following courses *Chemical Engineering Transport Phenomena I* and *Chemical Engineering Laboratory*.

COMMUNITY COLLEGES, DAVIS, CA AND TUCSON, AZ

1/2003-8/2006

Adjunct faculty. Taught the following courses *Chemistry, General Organic Chemistry Lab* and *Engineering Projects*.

VALERO ENERGY CORPORATION, BENICIA, CA

7/2001-4/2003

Associate Process Engineer. In charge of the utility and oil movement process operations. Responsibilities included designing new processes, maintenance projects, making engineering calculations, maintaining awareness of safety, health and environmental issues, evaluating economic feasibility, and supplying technical data.

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AFFILIATIONS

Institute of Food Technologist (IFT)
American Chemical Society (ACS)
American Society for Engineering
Education (ASEE)
Society of Women Engineers (SWE)
Specialty Coffee Association (SCA)

COMMUNITY ACTIVITES

Health Equity Advisory Committee
(HEAC) Volunteer
Boulder County Farmers Market
(BCFM) former board member
Colorado Grain Chain (CGC)
Slow Food Boulder County
Ollin Farms – Smart Farming GEEN
1400 Outreach Projects
Partners of the Americas –Farmer
to farmers, Tomato Processing
Volunteer
Leukemia and Lymphoma Society,
Athlete Volunteer
Thornton Middle School, Latinos in
Action - The Science of salsa
outreach STEM projects
Mechanical Engineering
department DEI committee

OTHER SKILLS

Fluent in Spanish
Working proficiency in Italian

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EXXON, BILLINGS MONTANA

5/1998 - 8/1998

Intern Engineer, modified, converted, and developed automated tools to allow engineers to efficiently monitor key unit variables. Set up target exception reports and a raw data retriever that automatically segregated and listed critical parameters into reports.

REFERENCES:

Michael Hannigan (supervisor at CU Boulder)
Professor and Department Chair
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Alan C. West (former supervisor at Columbia University)
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