

PAUL DONALD ROY

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SUMMARY:

As an undergraduate, I conducted synthetic methodology studies as well as the multi-step organic synthesis of pharmaceutical intermediates. I developed and implemented synthetic protocols, developed chemical processing techniques (including liquid-liquid separations and flash chromatography), and analytical techniques (including TLC, GC, IR and NMR). The substrates and reagents included small organic molecules, hydride reductants, transition metal oxidation catalysts, organic halides, thionyl chloride, and protecting group reagents.

As a graduate student, I conducted physical organic chemistry research by investigating gas phase reactions of ions with organic and organometallic molecules using the flowing afterglow technique. I developed skills in the maintenance of high vacuum systems, mass spectrometry, computer assisted design, data management and literature searching.

In my industrial career as a chemist in applied research, I conducted laboratory feasibility studies and field studies in the use of hydrogen peroxide and organic peroxides for a variety of applications including chemical oxidation (e.g., oxidation of amines and sulfides, oxidative coupling), treatment of chemical wastes (e.g., deodorization, detoxification and mineralization), purification of chemical products (e.g., inorganic salts and acids, natural oils and waxes), bleaching of food products, and metal finishing. I communicated directly with customers concerning projects and other technical issues. I distinguished myself within the local organization as the preferred supplier of technical information which I obtained through online database searching (e.g., STN, Dialog), and by coordinating the start-up of a pilot unit for the production of an organic peracid. I developed proficiency with the Microsoft Office Suite (e.g., Word, Powerpoint, Excel), statistical experimental design software, and SAP applications.

In my brief career as a scientific recruiter, I developed numerous contacts in the industry. I also developed skills in marketing, contact database management (ACT! Software), time management, and internet searching.

As an adjunct professor, I conducted lectures and supervised student laboratory exercises for general chemistry and organic chemistry. I have also taught environmental science.

EDUCATION:

Masters in Education (2012)
University of Houston

Masters in Chemistry (1988)
Harvard University

Bachelors in Chemistry (1986)
Pennsylvania State University

EXPERIENCE:

1999-present *Adjunct Professor*
San Jacinto College, North Harris College, Houston Community College

As a professor, I conducted lectures and supervised students in general chemistry and organic chemistry. I also lectured in environmental science.

1998 *Scientific Recruiter*
Scienstaff, Inc.

As a technical recruiter, I marketed recruiting services in the chemical industry, negotiated agreements, and conducted searches for technical professionals.

1989-1998 *Chemist*
Solvay Interlox

As a chemist in applied research, I communicated with customers, designed and implemented research projects, analyzed data, and presented results to customers in both oral and written format. In addition, I distinguished myself within the organization by becoming the preferred supplier of technical information from online databases, by coordinating the start-up of a pilot unit for the production of an organic peracid, by making significant contributions within a business team to develop marketing strategy, and by pro-actively standardizing procedures in my area of responsibility.

1987-1989 *Research Associate*
Harvard University

As a research associate I devised and implemented experiments, analyzed data, and presented results. In addition, I designed and maintained equipment, acquisitioned laboratory materials, and utilized computer equipment.