

1986 – 1997

ESI, Engineering Services Inc.; Walnut Creek, California

Project Manager/Project Engineer/Process Engineer/Certifying Entity

Project Manager for crude unit revamp. Project Engineer for crude oil pumping station, detergent manufacture plant, food processing plant modifications, refinery wastewater treatment plant modifications, cost estimate for storm water system modifications. Process Engineer for 5 crude oil or gasoline marine vapor control systems, Stretford unit modifications, gas fired steam boilers for oilfield recovery, oil refinery flare header expansion, modifications to electronic grade sulfuric and nitric acid plants. U. S. Coast Guard Certifying Entity for changes to a marine vapor control system.

1981 to 1986

Hallanger Engineers; Orinda, California

Process Engineer/Project Engineer

Process Engineer for cogeneration plant, refinery feasibility studies, geothermal power plant. Project Engineer for waste oil reprocessing facility, cost estimate for crude unit and vacuum unit refurbishment.

1976 to 1981

Shell Oil Company; Martinez, California

Process Engineer/Economics and Scheduling Engineer/Operations Engineer

Process Engineer for \$800 million refinery modernization. Economics and Scheduling Engineer responsibilities included profitability analysis, crude oil and gasoline shipping coordination and gasoline blending oversight. Operations Support Engineer for crude oil, carbon monoxide fueled steam boiler, vacuum tower, alkylation, naphtha, gasoil, and FCCU hydrotreaters.

PROFESSIONAL REGISTRATIONS:

Registered Professional Engineer in California (#6152)
Registered Certification Engineer, United States Coast Guard

PROFESSIONAL ORGANIZATIONS:

American Institute of Chemical Engineers

EDUCATION:

1976 - B. S. Chemical Engineering, University of California at Davis