

**Dennis M. Gier, P.E.**

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**SUMMARY:** A construction professional with diversified experience in construction, engineering, and management. Skills in leadership, communication, budgets, estimating, scheduling, cost control, project management, teaching, and course development.

**ACADEMIC EXPERIENCE**

**Associate Professor, Tenured Faculty,** 2004 - Present  
California State University, Chico, CA, Construction Management Department

- Teach Construction Estimating, Scheduling, Cost Management, Methods Analysis, Construction Productivity, Construction Materials, and Management Courses.
- Serve on the College Scholarships Committee and several CM Department Committees, i.e. Curriculum Committee, CM Budget Committee, Research/Grants Committee, Development Committee, and ASC Competition Advisors Committee.
- Coach the ASC Student Competition Teams in Marine, Mechanical, and Heavy Civil. Teams awarded National Championships in 2004, 2005, and 2008.
- Participate in developing an on-line pavement preservation certification program for the California Pavement Preservation Center as part of a \$1.8 million Caltrans Project. Work on this project selected for the University-wide "Exemplary On-line Instruction" award.
- Publish papers on Construction Education, Construction Research, Productivity, Visualization, and Environmental Issues. Current Grants from Caltrans and CEA.

**Full-Time Faculty,** California Polytechnic State University 2000 - 2004  
San Luis Obispo, CA, Construction Management Department

- Selected as Finalist, Distinguished Lecturer Award, 2003.
- Taught Construction Contract Administration, Construction Cost Control, Construction Materials, Construction Estimating, and Principles of Construction Management Courses.
- Served on one University Committee, i.e. The Library Committee. Served on three Department Committees, i.e. Outcomes Assessment Committee, Technology and Facilities Committee, and ASC Student Competition Committee.
- Coached two ASC Student Competition Teams, i.e. Heavy Civil and Mechanical/Electrical Teams. Mechanical Team awarded 3<sup>rd</sup> Place National Champions.
- Participated in the ASC Annual International Conference as a presenter and moderator.
- Published papers on Construction Education.

**Caltrans Faculty**, California Polytechnic State University 1987 - Present  
San Luis Obispo, CA, Civil and Environmental Engineering Department  
Computer Aided Design Application Courses.

**Adjunct Faculty**, University of California -Berkeley 1989 - Present  
Berkeley, CA, Institute of Transportation Studies  
Computer Applications and Network Management Courses

## **CONSTRUCTION EXPERIENCE**

**Chief**, Quality Assurance Branch, Construction Division, Corps of Engineers  
Far East District 1999-2000

- Responded to the emergency need by the Corps of Engineers for Construction Professionals with Construction Management experience to serve on a Flood Recovery team in South Korea, where five U.S. Military Bases were severely damaged during recent Monsoon Floods.
- Served as acting Deputy Resident Engineer. Responsible for the daily operation and expansion of the Tongduchon Resident Office from six people to thirty-two people. Administered the contracts on over \$220 million worth of Flood Recovery Construction.
- Also, served as Chief, Quality Assurance Branch, Construction Division, for the Tongduchon Resident Office. Responsible for assisting the Resident Engineer in his duties as the approving authority for all contract submittals and related documents.
- Supervised a three-person project cost accounting team in charge of all procurement administration. Supervised a five-person interdisciplinary technical assistance team.
- Provided technical assistance to the Resident Engineer, Project Engineers and Quality Assurance Representatives regarding construction methods and practice.
- As Senior Civil Engineer, was responsible for reviewing and analyzing contract documents, contractor submittals, technical reports, change orders, plans and specifications.
- Identified and solved technical problems in the field related to the design and construction of a broad range of facilities, such as water and waterway systems, flood prevention structures, roads, bridges, erosion control, drainage, barracks, dining facilities, administrative buildings, storage facilities, retaining walls and structures.

**Construction Subcontractor**, D. M. Gier & Company, Homer, AK 1982 – 1987  
Responsible of estimating, bidding, quality control, and project management for site development contracts on various construction projects, such as professional offices and commercial buildings.

**Project Manager**, The Little Susitna Company, Inc., Engineers and Mechanical & Electrical Contractors, Anchorage, AK 1980 – 1981  
Responsible for project management for various construction projects, such as airport navigational aids and commercial buildings in Alaska.

**Project Manager**, Ted Forsi & Associates, Inc., Anchorage, AK 1978 – 1980  
Responsible for project management and construction inspection for various construction projects, such as airports, roads, water, and sewer systems, and buildings throughout Alaska. Worked on construction projects that involved all disciplines.

**Project Engineer**, Armbruster, Inc., General Contractors, Germany 1975 – 1976  
Responsible for estimating, bidding, scheduling, quality control, field changes, and liaison between the private construction firm and the Corps of Engineers on construction projects on U.S. Military Bases in Europe, e.g. Airport Cargo Facility, Base Exchange Retail Building.

**Construction Engineer**, U.S. Army Corps of Engineers 1972 - 1975  
Responsible for estimating, scheduling, construction inspections, and contract administration between the private construction firms and the Corps of Engineers for construction projects, e.g. buildings, roads on U.S. Military Bases in Korea and Germany.

**Construction Surveyor**, Hammondtree & Friedl, Inc., Canton, Ohio 1970 & 1971  
Completed construction surveying assignments on road, utility, and building projects.

**Construction Equipment Operator**, Gang Excavating Company, Canton, Ohio 1969  
Operated various construction equipment on road, utility, and building projects.

**Construction Laborer**, Melbourne Bros. Construction Company, Canton, Ohio 1968  
Worked on a union concrete crew for I-77, interstate highway and bridge projects.

## **PROFESSIONAL ENGINEERING EXPERIENCE**

**Director of Technology**, RomTech, Inc., San Luis Obispo, CA. 1996 - 1998  
Responsible for managing a team of engineers doing software development.

**Senior Engineer**, California Polytechnic State University 1987 – 1996  
ARDF, Civil and Environmental Engineering Department, San Luis Obispo, CA.  
Responsible for providing design and construction expertise to the Civil and Environmental Engineering Department on high technology projects for business and government organizations, such as:

- The Computer-Aided Design Development Project for Caltrans.
- The Transportation Management Center Simulator for Caltrans.
- The Automated Highway Systems Project for the Federal Highway Administration.
- The Technology Transfer Project for the Institute of Transportation Studies at the University of California, Berkeley.

**Project Manager**, D.M. Gier & Company, Homer, AK 1982 – 1987  
Project manager/lead design engineer in a 7-person civil engineering design office.

- Responsible for supervising the design efforts and managing the daily operation of the business.

- Designed plans and specifications on roadway and public works construction projects for local government agencies and real estate developers.
- Prepared engineering reports, environmental impact statements, cost estimates, and contract documents. Obtained the appropriate government construction permits and approvals on over \$10 million worth of construction projects.
- Decreased design costs 27% by implementing the use of computer-aided design tools for analysis, cost estimates, and contract document preparation.
- Awarded second place in a statewide Project Design Competition at the American Congress of Surveying and Mapping Conference.

## **CAREER ACCOMPLISHMENTS**

- Recipient, Exemplary Online Instruction Award, California State University, Chico.
- Finalist, Distinguished Lecturer Award, California Polytechnic State University.
- “Patent Pending” for information retrieval technology, U.S. Patent Office.
- Awarded a Certificate of Achievement from the Commander, Eighth U. S. Army - Korea for meritorious service during disaster relief efforts with the Emergency Flood Recovery Team, Corps of Engineers.
- Achievement Award for CAD User Manual in a statewide competition sponsored by the California Society of Technical Communications.
- Awarded second place in a statewide Project Design Competition at the American Congress of Surveying and Mapping Conference.
- Biography in Who’s Who in Science and Engineering, Marquis Publication.
- Commendation Medal for Outstanding Service, U.S. Army, Corps of Engineers.
- Registered Professional Engineer – Civil

## **SELECTED PROFESSIONAL PUBLICATIONS AND PRESENTATIONS**

- “What Impact Does Using Building Information Modeling Have on Teaching Estimating to Construction Management Students?,” 44<sup>th</sup> Annual ASC International Conference Proceedings Journal, 2008.
- “Does Learning Building Information Modeling Improve the Plan Reading Skills of Construction Management Students?,” 43<sup>rd</sup> Annual ASC International Conference Proceedings Journal, 2007.
- “Are Building Information Models Effective For Teaching Productivity Analysis?,” 42<sup>nd</sup> Annual ASC International Conference Proceedings Journal, 2006.

- “What Do Construction Companies Expect of New Construction Management Graduates?,” 42<sup>nd</sup> Annual ASC International Conference Proceedings Journal, 2006.
- “Can You Effectively Bring Productivity Analysis into the Construction Management Classroom?,” 41<sup>st</sup> Annual ASC International Conference Proceedings Journal, 2005.
- “Increasing the Effectiveness of Active Learning Exercises in the Construction Management Classroom,” 40<sup>th</sup> Annual ASC International Conference Proceedings Journal, 2004.
- “Transportation Plan for the 21<sup>st</sup> Century”, part of the Master Plan for California Polytechnic State University, 2003-2004.
- “The Application of Geographic Information Systems in Transportation,” Workshop, Institute of Transportation Studies, U.C. Berkeley, 1993-1995.
- “Understanding the Technical Aspects of CAD Management,” Course Manual and Workshop, Institute of Transportation Studies, U.C. Berkeley, 1992-1993.
- “Introduction to IGrds on the Apollo Workstations,” Vol. 1 & 2, 1987-1991. California Department of Transportation. This CAD User Manual won an Achievement Award for Technical Communication in a statewide competition sponsored by The Society of Technical Communications, 1991.
- “Introduction to Computer-Aided Design for Public Works Agencies,” Course Manual and Workshop, Instituted of Transportation Studies, U.C. Berkeley, 1989-1990.
- “Training Engineers to Use Computer-Aided Highway Design Software,” paper presented at The First International Conference of Applications of Advanced Technologies in Transportation Engineering, sponsored by ASCE and Caltrans, 1989.

## **EDUCATION**

M.S., Engineering, University of Dayton, Ohio, 1977

Attended night program, while working full time.

M.S., Systems Management, University of Southern California, 1975

Attended night program, while working full time.

B.S., Civil Engineering, University of Dayton, Ohio, 1972

Attended on a full 4 year Scholarship.

## **PROFESSIONAL AFFILIATIONS**

National Society of Professional Engineers

American Society of Civil Engineers

Sigma Lambda Chi, International Construction Honor Society