

# CURRICULUM VITAE

# JOEL K. DIETRICH

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## PROFESSIONAL REGISTRATION

Registered Architect - Louisiana (since 1978)

## PROFESSIONAL ORGANIZATIONS

American Institute of Architects - Member (since 1979)  
AIA Oklahoma (state chapter) - Board of Directors (1996 to 2000)  
AIA Central Oklahoma (local chapter) - Ex-Officio Board of Directors (1995 to 2000)

## EDUCATION

**M.Arch.** (Master of Architecture) Dec 1975  
School of Architecture and Urban Planning  
The University of Wisconsin-Milwaukee  
**B.E.D.** (Bachelor of Environmental Design) May 1973  
School of Architecture and Urban Design  
The University of Kansas

## ACADEMIC EXPERIENCE

**Associate Professor** Aug 1984 to present  
(tenure granted by unanimous vote 1988)  
**Director, Division of Architecture** May 1994 to August 2000  
**Coordinator of Computer Services** June 1986 to August 1994  
College of Architecture  
**University of Oklahoma**

Taught a required introductory computer course for over 20 semesters. Taught a series of advanced computer related courses for upper level students dealing with advanced issues of AutoCAD and three-dimensional modeling. Currently teach a computer class dealing with three-dimensional modeling, rendering and animation using AutoCAD and AutoDesk VIZ.

Taught and managed the Preceptorship Program which places students in offices for practical training for 5 years. Coordinated interviews and student placement with firms, counseled firms on preceptorship activities. Also guided students through a series of academic exercises designed to help them better understand the profession and their preceptorship experiences.

Taught 4th year architectural design for eleven years and was the 4th Year Coordinator for five years. Have taught studio using computers since 1989, integrating the use of computers comfortably into the design process.

Served as the **Director** of the Division of Architecture for 6 years. The academic unit consisted of 17 faculty and 300 students in one undergraduate and three graduate degree programs. Counseled students and administered admissions and transfer credit evaluations. Administered departmental budget and planned acquisitions. Assigned faculty teaching responsibilities, scheduled courses and determined facility utilization. Evaluated faculty performance and counseled faculty on professional development. Facilitated faculty discussions and decision making using a management style of consensus building on issues such as program changes, maintenance of curricula, and faculty hires. Guided the Division through accreditation and University program review. Encouraged the introduction and supported a

Design/Build Studio in which students designed and built 6 houses for low income local residents during my administration. Worked within the multi-disciplinary college to promote interdisciplinary efforts. Worked with the professional organization to build professional ties to the University. Worked with alumni through such outreach activities as alumni receptions and our web site.

Served as **Coordinator of Computer Services** for the College for 8 years until the College hired a full-time Network Administrator when I became Director. Identified funding sources and acquired a micro-computer network which included 38 units in the Computer Lab and 16 units in a CAD Studio. The Computer Lab was the first student oriented, micro-computer based, local area network at the University.

Responsibilities as Computer Coordinator included long range planning, developing budgets and proposals, building and installing new equipment, maintaining all equipment, performing back-ups, requesting and monitoring software donations, implementing new software, installing and maintaining Novell Netware, coordinating and training lab assistants, developing application programs, counseling students with computer problems, maintaining network security and ordering supplies.

Developed the initial College Web Site and continue to maintain the College and Division areas. Created and maintain the departmental web server (hardware and software). Posted hundreds of pages of photographs of current events and projects.

Committee responsibilities have included Coordinator of the Speakers Program and Computer Committee. Elected member of the faculty governance committee called Committee A. Member of numerous search committees including faculty, dean and provost searches. Twice a Member of the University Program Review Panel which reviews academic units across campus. On University Faculty Senate and Faculty Senate Executive Committee which met monthly with the President. Chair of the University Welfare Committee. Chair of the University Computer Committee. Faculty advisor to the AIAS for several years.

Winner of an OU Associates Distinguished Lectureship Award for four consecutive years from 1985 to 1988. The program was discontinued in 1989.

Winner of the 1987 Outstanding Faculty Member of the College of Architecture Award by the University of Oklahoma Student Association.

<b>Assistant Professor</b>	Aug 1978 to May 1984
<b>Assistant to the Director</b>	Aug 1982 to May 1984
<b>Instructor</b>	Jan 1976 to June 1978

School of Architecture  
**Louisiana State University**

Instrumental in the proposal and ultimate acquisition of a substantial micro-computer network for the College of Design. As the first such network on the campus, it served as a model for numerous networks that followed. Developed and started the first computer applications class for the College. Generally coordinated College computer activities, counseled students with computer problems and developed application programs.

Taught 4th year architectural design for seven years. Acted as 4th Year Coordinator for one year, organizing the activities of four 4th year design sections.

Taught several support courses in Management and Technology. These courses included Construction Project Management, Industrialization of Housing, Scheduling Methodology and Introduction to Energy Systems.

As Assistant to the Director of the School, counseled students and monitored student records. Supervised staff maintenance of student files. Evaluated selective admissions and transfer credits. Reviewed graduation checkouts conducted at the College level. Worked with the Director on course scheduling and facility utilization.

Numerous committee responsibilities included work in the areas of Research, Curriculum, Resources and Promotion. Involvement included School, College and University committees, such as the Search for the Director of Architecture and the Accreditation Study and Preparation Committees. Chaired committees on Research, Curriculum, By-Law Study and Computer Equipment. Member of the University Courses and Curriculum Committee.

**Adjunct Professor and Consultant** August 83 to August 84  
Division of Architecture  
**Southern University**

Taught Computer Applications in Architecture with the use of a \$45,000 micro-computer network installed specifically for the course. Also acted as a consultant to implement the new network and integrate its use into the architectural curriculum. Seminars for faculty were conducted, and appropriate computer exercises were developed.

The teaching appointment was accomplished as a one-third time loan from LSU under a special federal desegregation consent decree.

**Special Consultant** June 1984 to August 1984  
June 1983 to August 1983  
June 1982 to August 1982  
Department of Construction  
**Louisiana State University**

As a partial appointment for each summer, helped implement and coordinate a micro-computer network for the Department of Construction. Authored and implemented a series of computer programs for two estimating classes. Generally aided faculty and students in the utilization of both the micro computer network and the University main-frame computer.

**RESEARCH EXPERIENCE**

**Principal Investigator** \$8,725  
Development of an Animated Video for the Oklahoma City Memorial Design Competition. w/ The Oklahoma City Memorial Foundation

In this tight time frame project, developed one minute of animated computer animation for each of the five finalists of the Memorial competition. Three students assisted in the development of the computer models using both AutoCAD and Form-Z. Personally created all the animation and oversaw the production of over 10,920 frames of animation using a rendering farm of 56 pentium computers. Because of numerous delays in the contract process, this was accomplished in a three week period with one of the five finalists being modeled, rendered

and animated (1800 frames) in just 24 hours. Excerpts of the video appeared on all local news shows, all major national network news shows and the national Today show.

**Summer Faculty Fellow** \$12,000  
w/ CRSS, Inc., Houston, Texas

Established the Visualization Lab at the University of Oklahoma with equipment and software funded by CRSS. Ordered hardware and software, installed and configured all equipment. Continued work on the Campus Energy Model for the University of Oklahoma.

**Summer Faculty Fellow** \$12,000  
w/ CRSS, Inc., Houston, Texas

Worked in CRSS's Visualization Lab and at Texas A&M's Visualization Lab. Trained in The Advanced Visualizer by Wavefront Technologies. Assisted in visualization projects. Started the Campus Energy Model research project.

**Principal Investigator** \$20,623  
AUTOMATED SYSTEM FOR PRODUCTION  
OF INTERIOR ELEVATIONS  
w/ Aotani and Associates

A project to develop a system to automatically produce interior elevations from existing CAD floor plans. Authored an AutoLISP program to interactively locate required information and produce the related interior elevation automatically. Using this software three Graduate Assistants and the PI produced over 1600 interior elevations in the period of one week.

**Summer Faculty Fellow** \$6,500  
w/ Skidmore, Owings & Merrill, Chicago, Illinois

Worked with SOM's Computer Applications Group developing a custom interface for the AES software. Developed applications to deal with fundamental architectural elements such as walls, doors, windows, symbols and tags.

**Summer Faculty Fellow** \$8,350  
w/ Aotani and Associates, Honolulu, Hawaii

A ten week summer project in Aotani's office to evaluate and advise the firm on its future direction in CAD. Researched hardware and software options, negotiated and supervised new equipment acquisition, customized software, authored a program to translate from the old CAD to the new system and developed structure for building a detail drawing library.

**Resource Reviewer and Computer Advisor** \$6,000  
ANNOTATED HEALTH FACILITIES RESEARCH  
BIBLIOGRAPHY  
w/ AIA/ACSA Health Facilities Research Program  
(Project Director, Tom Selland)

A project to develop a bibliography with listings and annotations of publications that would be appropriate for architects and health facility programmers and consultants in the area of "health facilities".

My role as Resource Reviewer was to review journal citations for appropriateness and author annotations. My role as Computer Advisor

was to coordinate the collection of data into a database system. Authored modifications to the database to allow for easy search and retrieval of bibliography entries.

**Principal Investigator** \$1,826  
A DATA BASE FOR COMPUTER AIDED DRAFTING  
w/ Magnetic Peripherals, Inc.

A project to convert and verify existing building documents for use on a Computer Aided Drafting system. A series of shapes and menu additions was developed, along with related instructional material. The database and related drawings were used in the layout of the production process for two large manufacturing buildings.

**Co-Investigator** \$70,000  
(With Shih, Smothers, and Aguilar)  
LOUISIANA SOLAR DESIGN AND DATA DEVELOPMENT  
w/ Louisiana Department of Natural Resources

A project to develop Solar Design Notes to aid in the dissemination of solar information appropriate to Louisiana. Authored Design Notes on the following topics: Climate, Solar Position and Radiation, and Building Orientation and Configuration. Presented material at four state-wide seminars.

**Co-Principal Investigator** \$35,000  
(with Marshall & Smothers)  
SOLAR STANDARDS AND REGULATIONS

A project to develop draft standards and regulations for the certification, inspection, testing and installation of solar devices in Louisiana. Involvement included review and editing of the standards and regulations developed.

**Instructor**  
ENERGY CONSCIOUS DESIGN WORKSHOPS  
for local home designers and home builders

Training workshops for local home designers and home builders aimed at increasing their awareness of the energy problem and enhancing their skills at producing more energy efficient buildings.

**Research Associate** \$160,000  
THERMAL AND LIGHTING EFFICIENCY STANDARDS FOR  
NEW BUILDINGS and LIGHTING EFFICIENCY STANDARDS  
FOR EXISTING PUBLIC BUILDINGS  
w/ Louisiana State Department for Conservation

A project to develop thermal and lighting efficiency standards to be adopted by the State Legislature. Researched and authored two of the three parts of the Thermal Standards - Acceptable Practice Standards and Building Performance Standards. Responsibilities included the implementation of a major computer model to predict building energy use on two different computer systems. Developed a related data entry workbook and interactive computer data acquisition and preprocessing program. Developed teaching slide show to present material. Instructed eight seminars state-wide on the use of the computer model.

**Co-Investigator** \$3,000  
(with Walter V. Wendler)  
HOME MAINTENANCE AND ENERGY SAVING MODIFICATION  
SEMINARS  
w/ Capital Region Planning Commission

A project to develop and administer training seminars/workshops for local citizens on both Home Maintenance and Energy Saving Modifications. Eight seminars/workshops were given during the project.

**Instructor**  
ENERGY TRAINING SEMINARS  
for Gulf States Utilities Information Center Personnel

Training seminars for the personnel who staffed the local utility company's centers where customers obtained information on ways to save energy.

**Co-Investigator** \$4,800  
(with Dr. Jason C. Shih)  
BUILDING ENERGY PERFORMANCE - DATA SURVEY AND  
ANALYSIS  
w/ AIA Research Corporation

This project was aimed at helping the AIA/RC procure data on the designed energy performance levels of recently built/designed buildings in the Gulf Coast area. This was part of a larger research contract between the AIA/RC and HUD which involved the collection and analysis of this data for the entire United States.

**Principal Investigator** \$25,094  
ENERGY EFFICIENT HOUSING RESEARCH/DEMONSTRATION  
PROJECT  
w/ Home Builders and Apartment Association of Greater Baton Rouge

This project involved the design, construction supervision and monitoring of two energy efficient homes built in Baton Rouge, Louisiana. Project included the supervision and development of monitoring equipment and the monitoring of the houses under actual living conditions for over a year. The project received several awards including the National Home Builders' Energy House of the Year. The project continued to receive press coverage which was highlighted by the project being included in the "Better Homes and Gardens Summer Building Ideas" (Summer 1981 edition).

**PRIVATE PRACTICE**

**Owner** 11/2000 - present  
theEarchitect.com

A company which provides computer services for the architecture profession. Specializing in web site design and web hosting. Other services include network solutions, rendering, animation, videotape production and software training. Produced several videos including a proposed university housing complex and a surgical hospital in Texas.

**Architect**

Joel K. Dietrich, AIA  
RESIDENTIAL HOUSE DESIGN

Miscellaneous small residential projects including houses for Doctors Spencer and Doreen Maxcy and Bud and Darlene Lanier in Baton Rouge.

**Principal Investigator**

COMPUTERIZED CODE ANALYSIS  
CODEsearch

\$21,900

The development of a computerized code search and analysis program called CODEsearch. This computer program searched both the Life Safety Code and the Standard Building Code and gave the user only the more stringent requirements of either code that specifically pertained to the project.

Client - Louisiana Institute of Building Sciences