



About Phil Kreiker

With a Master of Science Degree in Electrical Engineering, Phil has been involved in many facets of the computer industry since 1963: hardware, software, documentation, human factors, systems design, and production control.

Phil has been writing and using Computer-Aided Design Systems since 1968. Utilizing these systems, he has programmed and designed computers and peripherals for Data General Corporation, Digital Equipment Corporation, Datatrol, and Raytheon Company. He's implemented and managed systems for the United Nations International Computing Centre, and for Hewlett-Packard.

Since 1984, he has been an AutoCAD User, Autodesk Authorized Reseller, Autodesk Registered Developer, and Autodesk Registered Author/Publisher (but not all at the same time). He has taught AutoCAD to design conveyor systems, map mines, manage facilities, lay bricks, generate bills of materials, design shock-absorber boots, convert orthographic projections into isometric, string transmission lines, cast shadows, and much, much more.

Phil has also found time to master nine or so computer languages, author numerous articles, and receive a patent for a microprocessor controller circuit.

He taught AutoCAD at the Colorado School of Mines from 1998-2003, and was Technical Editor at Large at CADENCE Magazine from 1996-1997.

In 1990, Phil came in second in the 'AutoCAD Top Gun U.S.A.' competition at the AutoCAD Expo in Atlanta; he was elected to the board of directors of the North American AutoCAD User Group; and Looking Glass Microproducts was named 'Business of the Year' by the Colorado Association of Commerce and Industry.

In 1991, Phil was elected President-Elect of the North American AutoCAD User Group

In 1992, Phil assumed the position of President of the North American AutoCAD User Group; and he came in second in the 'AutoCAD Top Gun U.S.A.' competition at the AutoCAD Expo in Dallas.

In 1998, Phil once more came in second in the 'AutoCAD Top Gun U.S.A.' competition at the AutoCAD Design World in Philadelphia.

Phil was a Contributing Editor at CADalyst Magazine from 1988 to 1996. His first book, The CAD Cookbook Collection, was published in 1993. His latest book, *Visual LISP: A Guide to Artful Programming*, part of the Programmer's Series from Autodesk Press, was originally published in 2000, and translated to Chinese in 2002.

Looking Glass Microproducts was established in 1982 by Phil Kreiker.

Under the pen name of Charles Dickens, Phil wrote the novels *Great Expectations* and *A Tale of Two Cities*.

Contact Information

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Projects of Looking Glass Microproducts

- **Associated Natural Gas, Inc.**
PMCogo helps translate survey notes into AutoCAD geometry.
- **Barrick Goldstrike Mines**
PitMap facilitates compiling geologic data with AutoCAD in Nevada and Peru.
- **Boeing Company**
SPAM facilities management software provides essential reports and creates Plant Layout Books automatically with AutoCAD and Access.
- **Daystar, Inc.**
DOSBOOT designs and machines injection molded boots using AutoCAD.
- **Delmar Learning**
Provided technical editing services on a number of projects.
- **Eastman Kodak Company - Kodak Colorado Division**
Automatic Layer and Symbol Insertion for AutoCAD
- **Electrical Systems Consultants**
SPOT draws catenary curves for spotting electrical transmission towers within AutoCAD

- **Engineered Handling Systems**
HyRoller converts schematic AutoCAD drawings of conveying systems into 3D models for photorealistic rendering.
- **The Gates Rubber Company**
DDHOSE turns hose specifications into 3D models and dimensioned, multi-view AutoCAD drawings.
- **Hytrol Conveyor Corporation**
HyCAD is an expert system for designing conveyor systems using AutoCAD.
- **Loveland Sculpture Works**
Foundry Time tracks job costs for every sculpture cast at the foundry.
- **Newmont Mining Corporation**
GeoMap compiles geologic data with AutoCAD and automatically transfers it to geologic engineering programs. The software is used worldwide.
- **Precision CADD**
STEEL and CONCRETE add custom structural steel and concrete capabilities to AutoCAD.
- **Proctor Companies**
Provided design automation and automatic change tracking with AutoCAD and Paradox
- **Santa Fe Pacific Gold Company Twin Creeks Mine**
MineMap facilitates compiling geologic data with AutoCAD.
- **Valmont Industries**
TRAP translates customer orders into AutoCAD drawings and NC Code manufacturing metal utility poles

PERSONAL RÉSUMÉ

Philip M. Kreiker
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EDUCATION:

- 1971 Master of Science in Electrical Engineering, Lowell Technological Institute, Lowell Massachusetts.
- 1968 Bachelor of Engineering, The Cooper Union for the Advancement of Science and Art, School of Engineering and Science, New York.

PROFESSIONAL EXPERIENCE:

- 1982 - Present Chief Technical Officer, Looking Glass Microproducts. Autodesk Registered Developer and Autodesk Registered Author/Publisher, Loveland, Colorado.
- Responsible for software design, implementation, and maintenance services; technical writing, documentation, and editing services.
- 1998 - 2003 Adjunct Instructor, Colorado School of Mines, Golden, Colorado
- Responsible for AutoCAD training for the Design Engineering Practices Introductory Course Sequence (EPICS) program — an introduction to the design process which includes open-ended problem solving and team work integrated with the use of computer software tools to solve engineering problems.
- 1996 - 1997 Technical Editor at Large, CADENCE Magazine, San Francisco, California.
- Monthly column, 'Down the Rabbit Hole' tells of trials and tribulations working with computers. Reviews computer hardware and software.
- 1986 - 1995 Contributing Editor, CADaylst Magazine, Eugene, Oregon.
- Attacked real AutoCAD hurdles with practical, elegant AutoLISP solutions in the monthly column, 'The CAD Cookbook.'
- 1979 - 1983 Software Engineer, Hewlett-Packard Loveland Instrument Division, Loveland, Colorado.
- System Manager and Programmer/Analyst for a twenty-terminal production control system. Proposed and implemented Data Base Management and Master Production Scheduling Systems, trained new users, and maintained and enhanced the system.

1977 - 1979 Principal Engineer, Digital Equipment Corporation, Large Computer Engineering Group Research and Development, Marlboro, Massachusetts.

Conceived and executed a single-board PDP-10 Mainframe Computer utilizing bit-slice microprocessor elements.

1973 - 1977 Senior Engineer, Data General Corporation, Westborough, Massachusetts.

Responsible for the design and implementation of microcomputer products and peripherals.

Designed the mN603 Input-Output Controller Integrated Circuit, as well as several peripheral interfaces and system elements for the microNOVA Computer System.

1972 - 1973 Senior Member Technical Staff, Datatrol, Inc., Hudson, Massachusetts.

Designed a microprogrammed CRT Terminal. Designed and microprogrammed the TP-1500 General Purpose Minicomputer for distributed data acquisition/retrieval systems. Designed a data concentrator for the TP-1500, and a quad-asynchronous multiplexor for the PDP-8E.

Responsible for conceptual design through release to production product and test specifications, and manufacturing support for these and other products.

1968 - 1972 Engineer, Raytheon Company Missile Systems Division, Bedford, Massachusetts.

Responsible for system and logic design of Beam Steering Computers for phased-array radar systems; system and logic design of automatic test equipment for same.

1966 - 1968 Programmer, United Nations International Computing Centre, United Nations, New York.

Responsible for the automation of several Statistical Office publications.

APPLICATIONS:

AutoCAD, MS Word, MS Excel, MS Access, MS PowerPoint

LANGUAGES:

ObjectARX, Visual C++, Visual Basic, Visual Basic for Applications, Visual LISP, LISP, BASIC, FORTRAN, RPGs, APL, Assemblers, Macroassemblers, Microassemblers, and MS-DOS.

OTHER:

North American AutoCAD User Group (AUGI)

President 1992-1993

President Elect 1991-1992

Local User Group Spokesperson 1990-1991

Author, *Visual LISP: A Guide to Artful Programming*, part of the Programmer's Series from Autodesk Press, was originally published in 2000, and translated to Chinese in 2002.

Author, *The CAD Cookbook Collection*, Advanstar Communications, Cleveland, Ohio, 1993.

AutoCAD Top Gun -- 1990, 1992, 1998

AutoCAD Instructor -- University of Colorado, Boulder, Autodesk University, MechanCAD

Inducted, Eta Kappa Nu, 1967.

U.S. Patent 4,040,032 -- "Peripheral Device Controller for a Data Processing System."

PERSONAL:

Married -- Three Children

Non-Smoker

Excellent Health