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**Michael Weaver**

1073 Badger Road  
North Pole, Alaska 99705  
(907) 488-3577 (voice)

Email: [mikeweaver\\_ak@hotmail.com](mailto:mikeweaver_ak@hotmail.com) – [Michael.weaver@acsalaska.net](mailto:Michael.weaver@acsalaska.net)

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P R O F E S S I O N A L   E X P E R I E N C E

**Alascad**

Fairbanks, Alaska

*August, 1991 to Present*

**Owner:** Alascad provides computer software and hardware support to businesses and individuals. I specialize in engineering applications, particularly AutoCAD. I also offer contract drafting services as well as contract programming and AutoCAD consulting services.

**Charles Bettisworth & Co.**

Fairbanks, Alaska

*July 1998 to Present*

**DESIGNER / DRAFTER / CAD MANAGER:** As a designer/drafter I produced all aspects of construction drawings with an emphasis on details. Working with the lead architect, I developed various plans, sections, and details. I was responsible for drafting standards and AutoCAD implementation using AutoCAD release 14 through AutoCAD 2005. I also coordinated drawing standards with our project consultants ensuring compliance to our clients requirements enabling efficient data sharing among disciplines. I provided in-house network, software and hardware support including maintenance of the corporate FTP site. I researched and made recommendations for software and hardware purchases then integrated those items into the office procedures.

**Greer Tank and Welding, Inc.**

Fairbanks, Alaska

*February, 1996 to July 1998*

**DESIGN MANAGER:** As Design Manager I was responsible for all drawings and designs produced by and for Greer Tank and Welding. These responsibilities included quality control regarding code compliance, compliance to project specifications and dimensional accuracy and constructability. The drawings and designs produced ranged from submittal drawings for a wide range of storage tanks to structural design and construction drawings of small structures. I was also responsible for the operation and maintenance of Greer's local area network and world-wide-web site.

**Fountainhead Development**

Fairbanks, Alaska

*January, 1995 to December, 1995*

**DESIGNER:** I provided all structural and architectural drawings on the Wedgewood Resort Hotel, a 150 unit tourist hotel in Fairbanks. Working in close cooperation with the structural engineer of record and the architect of record I provided all of the structural drawings and architectural drawings. I also drafted the ducting and plumbing plans for the mechanical engineer of record and provided backgrounds for the electrical engineer.

**Fluor Daniel Alaska**

Anchorage, Alaska

*February, 1994 to August, 1994*

**COMPUTER SUPPORT TECHNICIAN:** I provided computer support for the inspection and engineering crews for the Alyeska pipeline electrical inspection. This project involved approximately 125 designers and engineers. I fulfilled the responsibility of providing computer support, both software and hardware, for approximately 40 computer stations. I wrote several programs using Microsoft Visual Basic for windows that helped improve the flow of data from the field to the office. These programs relieved the designers of repetitive tasks and provided improved data integrity. I also acted as liaison between Fluor Daniel computer support personnel and the client's computer support people.

Software and equipment support included:

Autocad Release 12 for Windows  
Windows 3.1  
Microsoft Word for Windows 2.0c  
Microsoft Excel 4.0

Field Notes by Penmetrics  
Fotoman digital camera by Logitech  
Fototouch by Logitech  
Microsoft Foxpro 2.6 for Windows

**Design Alaska, Inc.**

Fairbanks, Alaska

*March, 1992 to February, 1994*

**STRUCTURAL DESIGNER:** I worked as a structural designer and provided computer support for other disciplines. I assisted with projects including:

Fort Greely School  
Growden Park Expansion  
GVEA Office Expansion

Anchorage Courthouse Seismic Study  
Alaska Air National Guard Hangar  
Several foundation retrofits

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Big Dipper Roof Repair, special inspection.

Federal Building Parking Expansion

I performed full structural investigation and design of various structures. I developed the drawings for the Air National Guard Hanger in Autocad using a 3D wireframe model consisting of over 1200 elements. This allowed the preparation of the drawings in a significantly shorter time period than would have been required otherwise. I used this 3D model as the basis for a rigorous structural analysis. I wrote several Excel applications to assist with the interface between the analysis program and Autocad. While working at Design Alaska I occasionally taught Advanced Autocad at the University of Alaska as a substitute instructor.

**Fluor Daniel Alaska, Inc.***March, 1990 to March, 1992*

Anchorage, Alaska

**STRUCTURAL DESIGNER III:** I worked as a structural designer and Autocad support provider. Structural work consisted of designing oil field process modules, mechanical equipment platforms and miscellaneous supports; including all required drawings. Engineering calculations performed included sizing of members and the design of connections. Autocad support work included troubleshooting Autocad installations for various disciplines. I assisted in translating 10,000 drawings from Intergraph to Autocad. This work required that I write several programs automating many of the cleanup tasks for this translation. This allowed for a more thorough translation than would have been practical otherwise.

**Fairbanks Machine & Steel***March, 1980 to March, 1990*

Fairbanks, Alaska

**HEAD OF ENGINEERING:** This job gave me my first on the job experience in engineering. I was Head of Engineering by the time I left Fairbanks Machine & Steel. My responsibilities included producing engineering calculations and documents, as well as managing department employees and resources. I produced structural and miscellaneous metals fabrication drawings. I acted as structural engineer on small structures including petrochemical, industrial and commercial projects.

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## S K I L L S

**COMPUTER SKILLS:**

I have developed programs using several different programming languages in both the DOS and Windows environments. I have worked with Lantastic, Novell and Windows networking systems. I am proficient in most general office software, particularly Microsoft products. I have extensive experience using, customizing and supporting Autocad including building programs to enable the sharing of data between Autocad and other programs. I am a licensed owner of Autocad 2005. My extensive use and programming of computers enables me to grasp the essentials of any software package quickly. This allows me to rapidly take full advantage of a program's capabilities. I have performed maintenance, repairs and upgrades to computers ranging from simple configuration operations to motherboard replacements including building entire systems from scratch.

**ENGINEERING SKILLS:**

I have been producing construction drawings for over 23 years, with 14 of those using AutoCAD beginning with release 10. My training in steel detailing and my own work in producing construction drawings for small boats has enabled me to develop a high degree of spatial perception. This allows me to solve difficult geometric problems easily with Autocad.

I am extremely detail oriented with the ability to provide solutions with as much detail as may be required.

**WORK HABITS:**

I give 110% to any project on which I work. I am responsive and proficient in providing assistance and information to those with whom I work.

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## E D U C A T I O N

**University of Alaska***1980 to 1982*

Fairbanks, Alaska

Approximately two semesters of engineering related classes including Engineering Graphics, Calculus, and computer programming.

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## R E F E R E N C E S

Available on request.

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