

## Resume for Allen W. Baker

**Address:** Bella Vista, AR 72715  
**Phone:** 479-619-8119  
**Email:** abaker@nwacc.edu

---

**Profile**      **Experienced classroom teacher and personal tutor.**  
Polished computer programmer, skilled in developing high-usability, high-reliability applications.  
Skilled presenter of complex information to both technical and non-technical audiences.  
Solid analytical, problem-solving, writing and presentation skills.

---

**Education**      **M.S. Electrical Engineering, University of Arkansas**      *May 1973*  
**B.S. Electrical Engineering, University of Arkansas**      *May 1971*

---

**Achievements**      **Objective-C and iOS 5 Development**      *Aug. 2012*  
App development; AboutObjects, Inc.

**Complete Android training**      *Mar. 2012*  
App development; Intertech, Inc.

**Microsoft Certified Technology Specialist (MCTS)**      *Mar. 2010*  
.NET Framework 3.5, Windows Forms Applications

**Eye Tracking System and Method**      *2009*  
Co-Inventor; Patent Applied for no. 20090196469

**Method and Device for Data Input**      *2011*  
Co-Inventor; Patent Applied for no. 20110063231

---

**Career History**      **Northwest Arkansas Community College, Bentonville, AR**      *Aug. 2010-Present*  
**Full-Time Instructor, Computer Information**

- Teach undergraduate credit courses in Introductory Programming, C++ Programming, Visual Basic Programming, Microsoft Windows, and Microsoft Office
- Served on the search committee for a full-time Advisor for the Business and Computer Information Division

**InvoTek, Inc., Alma, AR**      *July 2006-May 2010*  
**Senior Software Engineer**

- Developed custom software for Microsoft Windows-based computers, using Microsoft Visual Studio 2008, Visual C# and Visual Basic.
- Created a method for quadriplegics to type on a computer using head-movement gestures. InvoTek has applied for a patent on this work.
- Led the development of dictation software for people with speech disabilities. This product will be released in 2010.
- Led the development of a secure Internet-based data collection process and toolset for collecting speech samples.
- Developed a word prediction software module based on extensive analysis of current English language usage in the United States.
- Wrote and maintained user's manuals for five software products.

**University of Arkansas**, Computer Science and Computer Engineering  
Department, *Fayetteville, AR*

*Jan. 1999-May 2007*

***Instructor***

- Taught undergraduate courses in C, C++ and Java programming
- Managed classes ranging in size from 4 to 125 students
- Developed and taught new course in Game Programming
- Consistently earned high ratings from students
- Extensive use of Microsoft Word, Excel, and PowerPoint for course documents, lectures and student grades.
- Served as academic advisor to hundreds of Computer Science and Computer Engineering students
- Maintained a website, using Macromedia Dreamweaver, for communicating course information, study notes, schedules, and grades with my students

**Personal Business**, *Pea Ridge, AR and Bella Vista, AR*

*2002-2006*

***Website Developer***

- Developed and maintained a website for a local church
- Developed and maintained a website for a local contractor

**Northwest Arkansas Community College**, *Bentonville, AR*

*Aug. 2001-Dec. 2006*

***Part-Time Instructor***

- Taught undergraduate credit courses in Microsoft Office, Microsoft Access, C++ Programming, and QBasic Programming
- Taught continuing education courses in Microsoft Access and Microsoft Excel
- Maintained a website, using Macromedia Dreamweaver, for communicating course information, study notes, schedules, and grades with my students

**Living Stones Church**, *Alvin, TX*

*Sep. 1996-Dec. 1998*

***Video System Engineer***

- Technical manager of professional audio and video production system
- Implemented multiple major upgrades to cameras, video recorders, video distribution system, video post-production equipment, audio recorders, and audio distribution system

***Book Editor and Graphic Designer***

- Edited transcribed sermons into mini-books
- Prepared camera-ready manuscripts with Adobe PageMaker
- Prepared camera-ready cover art with Corel Draw!

**NASA – L. B. Johnson Space Center, Houston, TX**

*Oct. 1995-Dec. 1998*

***Software Systems Engineer***

- Reverse engineered and ported 11-year-old mainframe database application to client-server system using Microsoft Access and SQL Server
- Researched new products and technologies for in-house evaluation and testing

**NASA – L. B. Johnson Space Center, Houston, TX**

*Oct. 1988-Sept. 1995*

***Communications System Engineer***

- Provided technical oversight of \$600 million contract for the Communication and Data System development of the International Space Station
- Developed telemetry and data management concepts for the International Space Station
- Participated in the development of operating concepts for the Communication and Data System of the International Space Station

**United States Air Force – L. B. Johnson Space Center, Houston, TX**

*Aug. 1982-Sept. 1988*

***Communications System Engineer***

- Supported 12 Space Shuttle missions in Instrumentation and Communications Office of Space Shuttle Mission Control