



# Harriet C. King, Teacher

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(906) 281- 7122

Teaching students to be comfortable, prepared, and independent in computer skills, math, writing, business, music, and more by sharing my uniquely qualified combination of education, experience, and creative extrovert disposition. Promoting education and providing solutions to demystify technology.

## Accomplishments

- Changing lives by helping over 150 computer customers to digital independence and comfort.
- Teaching math, business, programming, music, art, and computer literacy over 20 years.
- Designed, programmed, and supported multiple engineering software applications.
- Analyzed and maintained accounting systems which led to 80% time savings on required reporting.
- Executive leadership for 13 years over 25 years of community non-profit organizing and fundraising.

## Current Teaching

**Adjunct Faculty**, Finlandia University, Hancock MI Jan 2013 –  
Teaching MAT146 Geometry for Artists; BUS125 Business for Artists; and ARD240 3-d Digital Modeling and Rendering

**Tutor and Entrepreneur**, We Help Use Tech, LLC dba Harriet the Helper, Houghton MI Mar 2012 –  
Expert personalized training and troubleshooting solutions for customers to become comfortable and independent using computer devices. All ages and experience levels, individual and business consulting and solutions. Over 150 satisfied customers.

**Tutor and Coordinator**, Michigan Technological University, Houghton MI Jan 2014 –  
MI Graduate School Communication Assistance Program. Technical copy editing, proofing, coaching technical writing, and formatting theses, dissertations, and professional articles.

**Teacher, Music** Sept 2013 –  
Teaching beginning and intermediate piano and recorder

## Education

**MS** degree in Computer Science, 3.85 GPA, Michigan Technological University 2012  
"The Effects of Motivation on Competency", published thesis

**BS** degree in Computer Science, 4.0 GPA, Michigan Technological University 2004

**MEd** degree in Art Education, NC Graduate Level Certification: K-12 Art, University of North Carolina at Greensboro 1991

**BA** degree in Studio Art, University of California at Berkeley 1985

## Professional Organizations and Honors

- National Tutoring Association, member since 2014
- Upsilon Pi Epsilon, international honor society, Michigan Technological University, 2011
- Summa Cum Laude at BS degree graduation, Michigan Technological University
- Cum Laude at high school graduation
- Outstanding Academic Achievement in Math, 4 awards, Michigan Technological University 2001 – 2004

## More Teaching Experience

- |                      |                               |  |
|----------------------|-------------------------------|--|
| • Volunteer Tutor    | Novice Computer Users         | Public Library (ongoing 4 years)         |
| • Art Teacher        | painting or ceramics          | Community Arts Center (ongoing 20 years) |
| • College Instructor | Creating Your Success         | MTU (1 semester)                         |
| • Lab Instructor     | Beginning Java Programming    | MTU (2 semesters)                        |
| • Co-Coordinator     | Summer Arts Camp              | Community Arts Center (2 years)          |
| • College Instructor | Art for Teachers, Graduate TA | UNC - Greensboro, NC (1 year)            |
| • Student Teacher    | K-12 Art                      | Greensboro, North Carolina (1 semester)  |

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## Publications

- King, Harriet, Robert Pastel, Paul Ward, and Charles Wallace, "Extrinsic Motivation Impairs User Performance", *Human Factors and Ergonomics Society International Meeting*, September 2013.
- Kumar, Shreya, Leo Ureel II, Harriet King, and Charles Wallace, "Lessons from Our Elders: Identifying Obstacles to Digital Literacy through Direct Engagement", *The 6th International Conference on Pervasive Technologies Related to Assistive Environments*, ACM International Conference Proceedings May 2013.
- King, Harriet Cook, Understanding "Just Enough" Computer Users: Motivation Style and Proficiency, Masters Thesis, Michigan Technological University, 2012.
- King, Harriet and Ruimin Zhang, A Webcam Based Face Tracking Game, Poster and software demonstration, Michigan Celebration of Women in Computer Science, March 2011.
- Interviewed and quoted in "Graduate CS & IT Programs", *Diversity/Careers in Engineering & Information Technology*, Volume XX Number 3, Spring/Fall 2011, page 56.

## Technical Employment

### **Software Developer**

May 2011 – Aug 2011

Keweenaw Research Center, Michigan Technological University. Improved to completion the critical control communication software using Visual C++ with .NET for large concrete placement machinery guided by robotic survey tools.

### **Software Engineer, Sales Engineer**

May 2007 – Dec 2010

Plastic Flow, LLC, Houghton, Michigan. Designed, implemented, tested, and deployed 3-D interactive graphics software simulating polymer flow for mechanical engineering and manufacturing using C++ with VTK graphics library, QT GUI components, and Simmetrix meshing libraries.

### **Software Developer, Manager of Managed Services, Sales Engineer**

Jan 2004 – May 2007

Consistacom Inc. an Avaya DevConnect Partner, Houghton, Michigan. Implemented and delivered to market IP Telephony management software using C++ with SQL and LDAP databases. Responsible for planning and supervising upgrades, rollouts, and maintenance on global systems in IP Telephony call flow management software. Subject matter expert in Avaya IP Telephony Management Systems.

### **Cost Accountant**

Aug 1985 – Aug 1988

Blue Cross Blue Shield, Durham, North Carolina. Analyzed, streamlined, and maintained cost accounting work flow and which led to time savings of 80% on required annual reporting.

## Technical Skills

- Languages: C, C++, Visual C++, .NET, Java, HTML, CSS, SQL
- Operating Systems: Android, Microsoft, Linux, Unix, Apple
- Databases: Interbase, LDAP
- Software Libraries: OpenGL, QT, VTK, Simmetrix Meshing, TMS, QHULL
- Development Environments: Eclipse, Borland C++ Developer, MS Visual Studio
- Website implementation and maintenance: FileZilla, DreamWorks, Adobe Illustrator, WordPress
- Office and accounting: MSOffice, OpenOffice, Adobe Creative Suite, Data & File Organization, QuickBooks, Giftworks, Sketchup, Mint, Squareup, Camtasia, WebEx, GoToMeeting, and much more