

Richard Shields

Interactive design and development
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WORK HISTORY:

BBI Engineering, San Francisco. Lead Flash Developer, Machinist, Installer.
September 2006 – Present

San Francisco State University, San Francisco. Lecturer.
January 2011 - Present

Freelance Flash Designer/Developer, San Francisco.
June 2005 – September 2006

United States Navy, various locations. Nuclear Machinists Mate First Class.
May 1991 – December 2000

SUMMARY:

Programmer of museum interactive software and of control, monitoring, and scheduling systems; 16 installations, over 75 museum controllers and more than 150 individual museum exhibit stations. Interactive software for approximately 40 exhibit stations. Lecturer, Digital Media, SFSU Design and Industry department.

INSTALLATIONS:

2011 – Bill and Melinda Gates Foundation, programming for 12 controllers, visitor center control and monitoring system.

2011 – Southern Utes Cultural Center and Museum, interactive rodeo photo booth and control/monitoring system programming.

2011 – Nevada State Museum, Las Vegas, control/monitoring system.

2011 – Fernbank Museum, interactive binocular software, machining for 4 exhibits.

2010 – Old Faithful Visitor Center, Yellowstone National Park, control/monitoring system.

2010 – Oakland Museum of California, interactive software and control/monitoring system. 9 exhibits including a self-portrait drawing system and archive, visitor recording studio, and guest selected video and audio presentation systems.

2009 – Texas A&M Association of Former Students, alumni information database and presentation, video archives presentation, and visitor recording studios, museum control system. 6 exhibits.

2009 – Walt Disney Family Museum, control system programming for approximately 20 controllers and 100 video and audio players. Museum monitoring system.

2008 – California Academy of Sciences, content presentation systems for 9 exhibits utilizing computer vision and RFID. Museum monitoring and volume control system.

2007 – Zeum, video green screen production studio with script-writing stations, teleprompter, and take-home recordings for children.

2007 – Las Vegas Springs Preserve, content presentation software for 5 exhibits and machining for 9 exhibits.

2006 – Habeas, web based company information and use-data flash presentation.

2006 – Ask.com, web based video how-to tutorial.

2005 – Wells Fargo, web presentation of documents from historical collection.

ACCOMPLISHMENTS:

- Created software facilitating communication between Flash applications and control systems. This enables the use of physical buttons, knobs, dials, RFID tag readers, computer vision systems, and many other technologies as input for interactive software.

- Created software enabling remote power management of computers (Apple, Windows, and Linux). This software is in use in several museums to start up and shut down galleries automatically relieving docents and administrators from these tasks.

- Assisted and facilitated completion of dozens of Flash projects in the past few years. Consultation is often provided at no cost to individuals still learning UI programming or to non profit organizations.

- Worked as shop machinist for the pump repair shop at the Navy's Shore Intermediate Maintenance Facility in San Diego for 3 years, cutting to tolerances of +/- 0.003 inches with over 99% accuracy. Self-taught machinist.

- Supervised 20 employees while responsible for maintenance and repair of half of an aircraft carrier engine room.

- Stage Manager for 15 productions in a highly successful high school theater department which won awards at district, regional, and state levels.

- For the 1987 Texas State Science Fair, tested efficiency of various computer chips and used the results to design and build a portable computer. Project won at the state level.

EDUCATION:

2006 – Bachelor of Arts, San Francisco State University, Industrial Art major (Visual Communications emphasis) and Fine Art minor. Graduated cum laude with a Certificate of Recognition from the Design and Industry department.

2003 – College work at Santa Barbara Community College majoring in Design.

1992 – Naval Nuclear Propulsion School, Orlando FL and Groton, CT, received Naval Nuclear Propulsion Plant Operator certification.

1989 – College work at UCLA majoring in Electrical Engineering.

CAPABILITIES:

Software: Flash, Flex/Flash Builder, Photoshop, Illustrator, Acrobat, Word, Excel, Powerpoint, Keynote, Drupal, Wordpress, Joomla.

Programming: Actionscript 2 and 3, HTML, CSS, Javascript, XML, MySQL, PHP, BASH, Processing, Arduino, Brightsign.

ADDITIONAL INTERESTS:

Mission furniture fabrication, woodturning, bench tool design and fabrication.

Portrait and macro photography.

Wood block, silk screen, and Plexiglas intaglio printmaking.

Personal references and military evaluations available upon request.