



Bill Ferster

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A 30+ year track record of creating innovative products in a number of sectors, from animation, motion picture, and video industries to education. My specialty is developing highly interactive data-driven web applications for education and am comfortable in all parts of the product development lifecycle– from evaluating ideas, markets, and technologies to the implementation, and deployment. Fluent in modern web technologies and can take the steps to create a practical solution– whether that entails advice, evaluation, or development.

Full CV and live examples of work at: www.stagetools.com/bill

AREAS OF EXPERTISE

- **Product Development** – Design of innovative tools that uniquely fit the needs of their users; including web applications, data visualization, mapping, digital video, and 3D rendering.
- **Educational Technology** – Author of two well-regarded books on the history of educational technology. Deep expertise in the use of technology in education, including K-12 constructivist tools, machine learning, and adaptive learning systems.
- **Data Visualization and Mapping** – Author of a textbook on using interactive visualization in the humanities and developer of a number of NEH-funded web-based visualization tools.
- **Digital Video and Media** – Developed the first nonlinear editing system, the EMMY award winning EMC2 Digital editor and continue to push the envelope with web-based tools such as the Qmedia interactive video authoring system.
- **Business Development** – Experienced in business/corporate financial transactions.

EXPERIENCE

Research Professor, University of Virginia, 2013-present

- Faculty appointment to the Curry School of Education.
- Director of *Interactive Visualization* projects at the Science, Humanities, and Arts Network Technology Initiative: www.viseyes.org.
- Co-PI on multiple NEH grants to explore interactive visualization of historical topics.
- Developed multiple highly interactive web applications for education.
- Taught classes in historical visualization and educational tools design.

Founder, StageTools, 1996-present

- Developer of *MovingPicture*, a software tool used by all the major network television and cable companies, and independent documentary film producers, including Ken Burns, to create motion from still images: www.stagetools.com.

General Manager Editing Products, Dynatech Video Group, 1994-1996

- Transitional role following the EMC acquisition.

Founder, Editing Machines Corporation (EMC), 1988-1994

- Founded EMC in July 1988 to develop and manufacture the first digital nonlinear EMMY award winning video editing system for the film/video industry.

Director Product Strategy, Pansophic Systems, 1987-1988

- Transitional role following the acquisition of *West End Film*.

Founder, West End Film, 1980-1987

- Designed and manufactured the first PC-based Oxberry motion control system, *The Cameraman*. Designed and marketed a series of software packages for computer animation and design; *Artwork*, *Brushwork*, *Chartwork*, *Pagework*, and *VideoWork*.

EDUCATION

- **PhD in Education** – University of Virginia, 2006
- **BFA in Design** – George Washington University, 1979

SKILLS

- Fluent in JavaScript, Java, PHP, HTML5, CSS, and C++ computer languages
- Mastery of MySQL, D3, WebGL, OpenLayers, ArcGIS, jQuery, Google API, and others
- Qualitative research design and statistics
- Mapping, and geographic information design
- Data visualization tools and techniques

BOOKS

Ferster, B. (2016). *Sage on the screen: Education, Media, and How We Learn*. Baltimore: Johns Hopkins University Press.

Ferster, B. (2014). *Teaching Machines: Learning from the intersection of education and technology*. Baltimore: Johns Hopkins University Press.

Ferster, B. (2012). *Interactive visualization: Insight through inquiry*. Cambridge: MIT Press.

AWARDS / GRANTS / PATENTS

- **American Library Association** – Best 25 educational web sites, 2009
- **Jerry Price Innovative Technology Award** – Society of IT & Teacher Education, 2008
- **Emmy Award** – EMC: “Outstanding Technical Achievement”, 1993
- **National Endowment for the Humanities** – \$339,713, 2008.,2012-2015
- **PrimarySourceLearning (Library of Congress)** – \$238,370, 2007, 2008
- **J.B. DuPont Foundation** – \$154,700, 2007-2008
- **US Patent Number 5,559,562** – MPEG Editing seminal patent, 1996