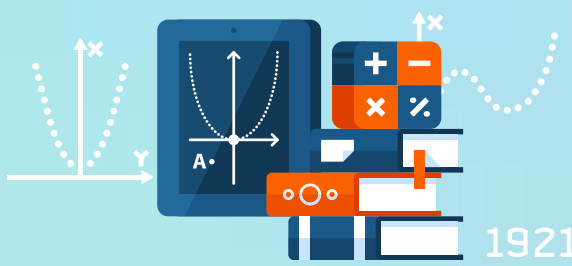


A SHORT HISTORY OF Women's Contributions to Tech

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1921

Edith Clarke, an electrical engineer at GE, invented the Clarke calculator, which could solve line equations with hyperbolic functions ten times faster than any other process.



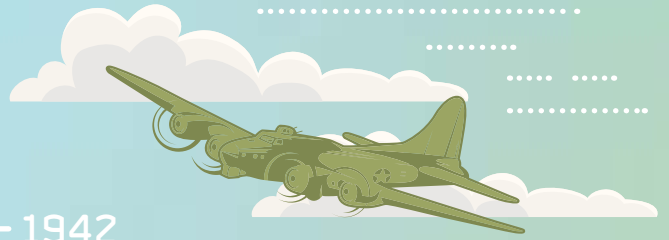
1949

Evelyn Boyd Granville became the second African-American woman to receive a Ph.D. in mathematics—from Yale University. She used her considerable talents to help with the Apollo space program, including calculating celestial mechanics and trajectories.



1842

Ada Lovelace published the first algorithm, to be run by Charles Babbage's Analytical Engine, making her the first computer programmer, of sorts.



1942

The women of the University of Pennsylvania's Moore School of Engineering set up the Electronic Numerical Integrator and Computer (ENIAC) to calculate bomb trajectories during WWII.



1950s

Grace Hopper invented FLOW-MATIC, the first data processing language to resemble actual English and a predecessor of influential programming language COBOL.



1960s

Margaret Hamilton, credited with coming up with the term "software engineering," led a team that developed the in-flight software for the Apollo missions and Skylab.

1961

Katherine Johnson was instrumental in calculating the launch window for Alan Shepard's first space flight. Later, astronaut John Glenn refused to use the numbers calculated for his orbit by electronic computers unless they were verified by Johnson.

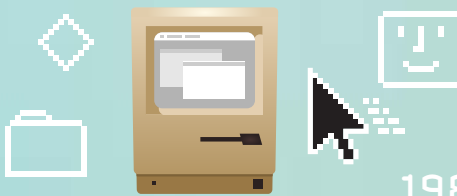
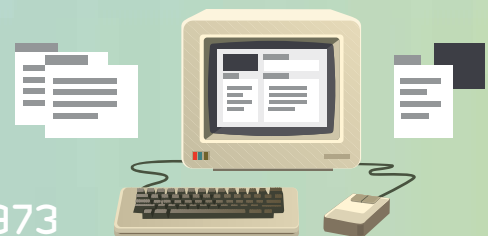


1965

Sister Mary Kenneth Keller became the first American woman to receive a Ph.D in computer science. She went on to advocate for the use of computers in education and to encourage women to get involved in computer science.

1973

Adele Goldberg began working with a team to develop the programming language Smalltalk-80, which "introduced a programming environment of overlapping windows on graphic display screens."



1982

Susan Kare joined the original Macintosh team at Apple and was instrumental in designing the user interface graphics for the first Mac OS.

1984

Radia Perlman invented the Spanning Tree Protocol (STP), one of the foundations of the Internet as we know it.

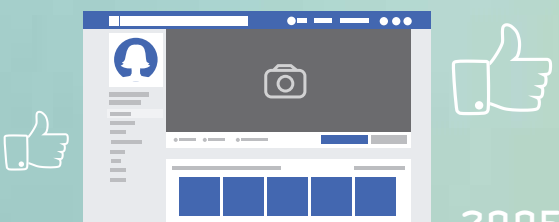


1993

Shafi Goldwasser received the Gödel Prize in mathematics for co-inventing probabilistic encryption, the basis for modern data encryption security.

1999

Marissa Mayer was hired as the first female engineer at Google. She became part of the 3-person team who created AdWords, Google's primary revenue generator.



2005

Ruchi Sanghvi became the first female engineer at Facebook. She was instrumental in creating the platform's News Feed, rolled out in 2006.

This is only the beginning, as women continue to transform the world of technology.

