Plan

Achievements:

-Studied Maths and Philospohy in Earlham College (Richmond, Indiana) where she met James Hamilton, and they married. She graduated in 1958: (/)<https://www.britannica.com/biography/Margaret-Hamilton-American-computer-scientist>

-Coined the term Software Engineer: <https://medium.com/@verne/margaret-hamilton-the-engineer-who-took-the-apollo-to-the-moon-7d550c73d3fa>, <https://www.worldcat.org/title/fluency-with-information-technology-skills-concepts-capabilities/oclc/960641978>

-Led the Software Engineering Division of the MIT Instrumentation Laboratory, which in 1961 contracted with NASA to develop the Apollo program’s guidance system: <http://news.mit.edu/2016/scene-at-mit-margaret-hamilton-apollo-code-0817>

* “the lunar landing was one of the first time that software was ever entrusted with such a mission-critical, real-time task: <https://www.wired.com/insights/2014/08/software-woman-heart-lunar-triumph/>
* 1201/1202 alarms during landing: <https://medium.com/@verne/margaret-hamilton-the-engineer-who-took-the-apollo-to-the-moon-7d550c73d3fa>
* Code is now on GitHub: https://qz.com/726338/the-code-that-took-america-to-the-moon-was-just-published-to-github-and-its-like-a-1960s-time-capsule/

-CEO of Higher Order Software, a company she co-founder from 1976 to 1984: https://ieeexplore.ieee.org/document/1702333/, then founded Hamilton Technologies, Inc in 1986.: http://www.htius.com/About\_Us/About\_Us.htm

-Universal Systems Language: <http://htius.com/Articles/r12ham.pdf>

-Founded “To accelerate the evolution of our technology and to introduce it to more users.” <https://medium.com/@verne/margaret-hamilton-the-engineer-who-took-the-apollo-to-the-moon-7d550c73d3fa>

-USL’s development-before-the-fact philosophy is preventive, not allowing errors in the first place: <http://htius.com/Articles/r12ham.pdf>

-

-contributions to ideas about fault-tolerance and reliability: <https://www.wired.com/insights/2014/08/software-woman-heart-lunar-triumph/>

-“Hamilton contributed to concepts of asynchronous software, priority scheduling and priority displays, and human-in-the-loop decision capability, which set the foundation for modern, ultra-reliable software design and engineering.”: <https://obamawhitehouse.archives.gov/the-press-office/2016/11/16/president-obama-names-recipients-presidential-medal-freedom>

-http://www.computerhistory.org/fellowawards/hall/margaret-hamilton/

-Received Medal of Freedom from Barack Obama in 2016: <https://obamawhitehouse.archives.gov/the-press-office/2016/11/16/president-obama-names-recipients-presidential-medal-freedom>

-Numerous other awards including the Ada Lovelace award from the Association for Women in Computing: <http://www.awc-hq.org/ada-lovelace-awards.html> and an official Lego Minifigure of her along with Nancy Grace Roman, Sally Ride and Mae Jemison: <https://shop.lego.com/en-GB/Women-of-NASA-21312>

NASA

https://www.nasa.gov/feature/margaret-hamilton-apollo-software-engineer-awarded-presidential-medal-of-freedom