



# Emma Holmes

Four-Year Renewable Scholarship Recipient  
2017 Bachelor of Science in both  
Mechanical Engineering & Computer Science  
University of Maryland

*"I feel blessed to be entrusted with your confidence and support. This scholarship has helped make my college education an affordable dream, providing me with the freedom to concentrate on my engineering and computer science studies while continuing to pursue extra-curricular and community service opportunities. I am exceptionally proud to be a member of the Navy's extended family. It's a life lesson that has not only taught me the value of personal responsibility and hard work, but also that we take care of our own. Thank you to Wings Over America for helping to take care of me." (2014)*



"I graduated as a 4-year Presidential Scholar from the University of Maryland, with Bachelor of Science Degrees in both Mechanical Engineering and Computer Science. During my time at UMD, I was an engineering intern at the Naval Warfare Center in Pax River, MD working in F/A-18 mission systems as a test analyst supporting inflight structural stress data collection and the Infrared Search and Track system. I was thrilled to be qualified to occupy the co-pilot seat during ground testing. During my senior year, I accepted an internship with The Johns Hopkins University Applied Physics Laboratory in Laurel, MD on an exoskeleton project, which ultimately led to a full-time position in the APL Research and Exploratory Development Department upon graduation.

I'm currently working as a design engineer and programmer focusing on robotic systems and artificial intelligence, where I've had the opportunity to work alongside the Army and Marines for projects with human-robot teaming, the Air Force for projects on autonomous controls, and other robotics teams and universities around the country. I'm thrilled I am still able to periodically support the U.S. Defense Departments with the skills and experience the Navy helped me attain with scholarship support.

Recently I was accepted into APL's Engineering Professional development program, and have started working on my Masters in Mechanical Engineering with a concentration in Robotics and Controls at Johns Hopkins. It has been my dream for years to work on robotic systems, and now I'm working every day on projects that range from augmenting a human's natural ability with an exoskeleton, to how humans and robots can cooperate, to how robots can run autonomously without human input. Looking to the future, I would love to use this technology I have worked on with robotic missions here on Earth, missions to Mars in the not too distant future, and maybe beyond." (2020)

