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Autonomy for unmanned systems is just one of the many different sectors of the Navy's Stem Program. This sector designs and creates machines that perform a task without the assistance of a human. The Navy uses unmanned systems for multiple reasons: reducing human error, preventing the risk of human life, and efficiency. I choose the topic because it can build a better and safer future. Not only that, but Engineering has also been one of my favorite subjects, and autonomy for unmanned systems is all about engineering. Navy's unmanned systems sector has a bright future that will see many good changes, starting with people like me.

One of the reasons autonomy for unmanned systems inspires me is because of its vast amount of applications. In the Navy, unmanned systems are being used to scan sea floors, explore space, and map out uncharted territory. These machines explore dangerous terrains that we humans could not on our own. Not only is this technology used in the Navy, but also by the average person. Good examples include self-driving cars, robot vacuums, and more. Technology like this allows people to spend time on what they love most, like family. This technology is rapidly improving, and the future is looking bright. Navy's program inspires me to invent and enhance technology like the ones we have today.

Also, the Navy's unmanned systems programs inspire me because of their ability to save the lives of so many people. One of the many ways unmanned systems save lives is by scouting out enemy forces and revealing their location. For example, if the Navy was on a mission to terminate a heavily sought out target, but they didn't know where they were, they could use a UAV to search for the person without putting a human at risk. Not only could this concept be applied to land missions but also on water because of USV's. Another way unmanned systems save lives is by destroying mines. Leftover mines from previous wars hurt people every day; the Navy uses its technology to destroy these mines and make the world a safer place. The Navy is saving the lives of so many people.

Another reason autonomy for unmanned systems inspires me is because of its career path and job opportunities besides just the Navy. In Aamir Qaiyumi's video, he talks about other programs, such as NASA, and how they are using unmanned systems to explore space. NASA uses unmanned systems to go where humans can't and gather information about our solar system. For example, NASA's rover, "Opportunity," is exploring Mars as we speak. Not only that but engineers also design robots to work in factories and do jobs for humans. After a career in the Navy, there are so many job opportunities that need your knowledge. This field provides so many possibilities that it could never become boring.

The Navy's future is very bright, and advancements are being made to make things even more fully automated. A lot of unmanned systems in the Navy are not actually unmanned and instead are controlled remotely by a human being. If they are not controlled, they are most likely, at least, assisted by human beings. In the future, the Navy is trying to make machines fully autonomous and to complete more complex tasks instead of just simple ones. One example of this is the Navy's future weapon, the Large surface combatant. Many of the Navy's cruisers are becoming outdated and unmanned cruisers are replacing them. These futuristic cruisers will have things like electromagnetic naval artillery and laser

anti-missile defense. This cruiser is just one of the many ways the Navy is improving its autonomous technology for the future.

The Navy's sector of unmanned systems is very inspiring because of its vast amount of applications and ability to save lives. The future is very bright, and improvements in technology are making things more autonomous. Even outside of the Navy's program, there are so many jobs that use the skills that you learn from the Navy's unmanned systems sector. Navy inspires me to become build a better future and improve upon the technology we have today.