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Many civilians are not aware that Air Force pilots can be stationed on United States soil and fly drones across the sea in various countries. Growing up, I have constantly found the topic of Artificial Intelligence and autonomous vehicles awe-inspiring. In some operations, independent machines are crucial to the safety and success of others. UAVs, which stands for Unmanned Aerial Vehicle, exist to be able to be mobilized for several purposes. Some include photographing land to being of use to the military from above with active surveillance or destroying enemy targets. Unmanned Ground Vehicles (UGV) can be called into play for rescue operations to replace humans in hazardous environments. UGVs can in addition be used to perform activities like firefighting or for diffusing explosives and carefully extract them from hazardous areas.

Recently I came across Dr. Robert Brizzolara who works at the Office of Naval Research (ONR). Dr. Brizzolara specializes in Unmanned Surface vehicles and Small Combatant Craft. This typically means he earns a living working efficiently with autonomous boats and ships, some of which sweep for mines. I deemed his work astonishing because he works in a field where his sole purpose is to manage vehicles that do not need humans to perform. Back in 2017, Dr. Brizzolara was the director of the Sea Hunter program at ONR. The Class III Medium Displacement Unmanned Surface Vehicle (MDUSV), was built to be unmanned from a certain distance. Sea Hunter would be commanded from a Remote Supervisory Control Station (RSCS). The vessel is installed with an electro-optical/infrared (EO/IR) sensor. The sensor enables long-range naval thermal imaging, the use of an infrared laser system, and enhances target detection. The entire vessel sits at 132 feet long and weighs in at 235 tons. The Sea Hunter is known as what is called a Trimaran vessel. This means that there are three separate hulls, the main hull in the middle and the two narrower hulls on either side. When I grow up, I want to be able to direct a critical space program, perhaps an engineering project. I would like to be able to discover more efficient ways to get to and from space.

As we all know, science and technology are constantly changing. Many fields in the STEM world will evolve further than where they are at present. Imagine if Unmanned Aerial Vehicles and Unmanned Ground Vehicles could carry out critical decisions to rescue someone or carry out a challenging mission. For all one knows, one day, scientists and engineers could produce machines in space meant to defend the Earth from asteroids and other threats. Even though the government wants to produce advances in technology, scientists still examine the fact of Artificial Intelligence turning on humans. Perhaps the Army and the newly formed branch of the Air Force, Space Force, could collaborate and upgrade the satellites to possess the similar materials a UAV has. Therefore the "new" satellites could be run from space and here on Earth. This could relieve them of the difficulty of trying to keep up with all of the drones on bases.