Week of 9/6:

I joined the research team on Friday 9/3 and was assigned my first job that same day. Dr. Namuduri tasked me with figuring out a way to program 2 drones such that they would follow each other while flying.

Week of 9/13:

I worked on the drone and figures out how to fly it and navigate it as well as move it around and properly fly it

Week of 9/20:

I used a YT tutorial to program the drone and make it fly based on my programmed instructions. The whole team also met to jointly learn how to program the drones and make them fly.

Week of 9/27:

I worked on making the drone more autonomous and programmed it its movements to make it a bit more advanced.

Plan for a usage of drones in a disaster situation:

Throughout the war in Afghanistan and Iraq, the insurgent enemy often used ambush tactics to attack convoys and patrols of national or coalition soldiers. Many times, insurgents would set up an IED (improvised explosive device) attack and position several fighters to start shooting as soon as the convoy encounters the IED. An untold number of solider were either killed or injured through this tactic. While the aforementioned wars are over, the future demands better surveillance and protection. Therefore, drones can be used to scan over a convoy’s path. This way, infrared cameras on the drone can be used to see if there is an IED buried somewhere or hidden heat signatures, indicating fighters waiting to ambush. If such information is made available to solider, they will be much better equipped to handle situations with minimal resistance and casualties.