M.A.Z.K Final Report

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Background:
We originally started our project in hopes of helping people that are facing a serious issue, that being natural disasters. M.A.Z.K is the acronym for the first letter of our first name's.

Our Objective:
The objective of this section of the project is to see how much weight our drone can hold. We want to know the weight our drone can hold so that when we scale our drone to a bigger size we can have an estimate of how much it can hold.

Two of our group members, April and Zaira worked on our company website. First we had to learn HTML on codecademy then we took a small lesson on CSS. We currently are designing the website on Weebly. So far on the website we have the "about" section ready and the title. We are planning to finish the lesson of CSS so we can add color to our website.

Problems We Faced:
Our drone was shipped later then the expected date. We needed a soldering iron and thankfully one of the teachers in our school had one. We also had trouble getting the soldering iron to work and putting it together. Two of our teams members Makayla and Kimberly had to learn how to use the soldering iron and what parts to solder. They had trouble finding videos of how to build the drone. Our other team members Zaira and April had trouble learning how to code and they also had trouble singing into codecademy and weebly.

Expo Objectives:
Our current objective for the 23rd, is to have our drone built and tested with how much weight it can hold. We probably won't be able to make any adjustments to our drone for better weight distribution if it doesn't work by the 23rd but we can work on it after the current challenge is over. As for our website we hope to have our front page completed and the " about" section that explains what our website is about and our business.

<u>Long-Term Objectives:</u>
Our long term objectives are to continue doing this project until we are able to get the business running and to get the website up and running. We are planning to finish the website next year. To complete this goal the two group members that are currently learning to code, would have to complete the lessons of HTML and CSS.

Our original objective with our drone, was to see how much weight it could efficiently carry from point A location to point B location. In the future we will be using/ building larger scale drones to be able to provide delivery of care packages to other states that are facing natural disasters. For this to happen, we need to ensure the durability, stability and strength of our prototype so that way when we enlarge our drone we will know that it's going to work efficiently. As of right now, we still don't have our drone built but we are still making progress. We hope to finish our grand project and open our business in a couple of years as of now, we are still figuring out all of our components.

Bibliography

Conner-Simmons, Adam. "Design your own drone" MIT, 5 December 2016,
        http://news.mit.edu/2016/design-your-own-custom-drone-1205.
        Accessed Dec. 7, 2017.

Epatko, Larisa. "How are drones used in the U.S." PBS, 18 April 2013,
        https://www.pbs.org/newshour/science/how-are-drones-used-in-us
        Accessed Dec. 7, 2017.

"How safe am I from Natural Disasters?" Time, http://time.com/safest-counties/. Accessed Dec.
        7, 2017.

HTML & CSS. Codecademy, https://www.codecademy.com/catalog/language/html-css.
        Accessed Dec. 7, 2017.

Mening, Robert. "HTML tutorial for beginners" Websitesetup, 10 September, 2017.
        https://websitesetup.org/html-tutorial-beginners/. Accessed Dec. 7, 2017.

National Centers for Environmental Information. "Storm Events Database." NOAA, 31 July 2017,
        https://www.ncdc.noaa.gov/stormevents/listevents.jsp?eventType=%28Z%29+Coastal+F
        lood&beginDate_mm=07&beginDate_dd=01&beginDate_yyyy=2016&endDate_mm=07&
        endDate_dd=31&endDate_yyyy=2017&hailfilter=0.00&tornfilter=0&windfilter=000&sort=
        DT&submitbutton=Search&statefips=-999%2CALL
        Accessed Dec. 7, 2017.

Weebly. Weebly, Inc, https://www.weebly.com.
        Accessed Dec. 7, 2017.

Whiteman, Doug. "10 states with the most natural disasters." *NBC*, 23 May 2013,
        https://www.nbcnews.com/business/10-states-most-natural-disasters-6c10088195.
        Accessed Dec. 7, 2017.