

Write up

We were assigned a project in which we needed to create a drone and pitch it. We did many things to create our finished product. We successfully set up a website with a working store, using the online site editors Weebly and WordPress.org, created a 3-D model with Legos and also made a virtual model with Lego Digital Designer, and allowed people to fly our drone with Google Earth Pro. Our website currently holds 59 sessions from places inside the United States, 97 sessions from the Russian federations Udmurtia and Samara Oblast, and even one session in Farsi.

Instead of making a single drone, our group decided to found an entire company called Adventure Drones, which featured 3 drones. Our first drone, the BiomeDrone™ was an all-around drone made for anyone who wished to soar the skies and capture high-quality images. Our second drone, the AquaDrone™ was a submersible drone intended for anyone who wanted to capture the beautiful ocean waters. Our last drone, the ExtremeDrone™, was a high-tech drone built mostly for government use, although it would be available to the public. The ExtremeDrone™, which would have a carbon shell and titanium and titanium alloy on the inside, would be able to withstand temperatures up to 2,500°F (1371°C). Its main purpose was to dive into volcanoes and monitor seismic activity and predict future eruptions and earthquakes.

At the GATE showcase, we had to present our products and sell Adventure Drone's concept. We had to set up four laptops and a tri-fold to properly capture all the work we did. We consider it a success, as we presented our ideas to numerous people who gave positive feedback. We had lots of fun with the project and expanded our knowledge on drones enormously! Anyone who wishes to visit our site may do so by going to: www.adventuredrones.tk

-Steven Molotnikov, Brett Sirkin, and Alexis Zukovski

Anna Nosa

Kayla Villon

Advisory, Kuhny

February 23, 2015

Inhabiting a Planet Project: Overview

Kayla Villon and Anna Nosa, were partners for a GATE project for the 7th grade held here at Valley Circle. Our project was to inhabit any planet we would like. Instead of inhabiting an existing planet, we decided to create our own. We both had simple and tense parts during this project. The simple part was making the models, creating journals, and working on our poster board. However, we had a couple minor problems that stressed us out. We couldn't meet with each other because we were both busy on the weekends. Eventually we were able to meet up and finish our project on Sunday. Another problem we had was making the website. We both understood how to make it but the problem was that at school apparently it didn't allow us to work on it so we had to work on it at home. Besides that, we believe that we did a great presentation and many guests and the administration enjoyed learning about our planet. Our final thoughts were that this project was rather enjoyable and we recommend it for the coming up years.

Luigi David

Lorien Ochsman

Advisory

WRITE-UP

For our presentation, we showed diagrams of our planet that we created called Sebastigorn, and showed information of our planet as well. Information such as: how we will inhabit Sebastigorn, the materials and natural resources on Sebastigorn, and the weather, atmosphere, land and water, and plant life. We also gave information on the most precious ore on Sebastigorn; Dilithium. We also gave information on how the dilithium crystal's chemicals can be harnessed and be used as fuel for the buildings and vehicles that will be used on the planet. Some of the parts in the project we did, we actually loved doing. One of them is creating the planet, its water and land colors, and the type of plant that lives on Sebastigorn. We also liked creating the vehicles and the models of them, and found the creation website quite likeable. Only a couple of the parts of the project we disliked, like the journals. The last thing we disliked was the planet model, mainly because we didn't put enough effort into it and it turned out, unlikeable. Overall, the project was mostly fun to do, and showcase was easy.

Andy Chau, Noah Fabrick, and Carlos Calixto

Our G.A.T.E. Reflection

Very recently, we've had a GATE showcase to present our projects to our school's administration and parents who came. It provided our group with a great learning experience that will help us present in the future. We received many great comments from parents and administration, but the pleasure was completely ours. The whole project was extremely fun. This certain project was the most entertaining for us. Letting us have free and creative rein to create our own drone was an experience of its own! We made a medical drone that injects medicine to people in areas that need it while other drones were made for other instances. One of the groups made a drone that we really like, a drone that would fly in the air. It was specifically used just to deliver packages quickly. It could deliver packages in around a day. GATE truly is a great educational programs that will surely broaden your horizons!

The Summary of My Project

My idea for my drone, the "GalactoTron," was originally based on transformers. It will be used as a combat robot in the military and government. Since it is a transformer, it can transform into a submarine and an aircraft. I thought that people would be attracted more if it was environmental friendly in some way. So, I made it environmental friendly by using energy from the sun through solar panels and generators to allow it to function when it's in the submersive form. I used Weebly.com to make my website because it makes things much more easier. It allows you to put videos, pictures, text, and more. I thought that I would build my drone's prototype out of legos because it would be fun, creative and easy. I researched what my drone would be powered on and I had learned so much like how I would need a hydraulic system with other parts to make my robot move. Also I learned that I had to program algorithms into the robot so that it understands that it has to move. When we had the showcase, I had so many people actually come and learn about my drone. Many people had asked questions and wanted to know more. Finally, I'd like to say that I had a great time working on this project, and I hope to make my drone a reality as we go into the future.

-Nazila Safiri
8th Grade Gate

Reagan Ochsmann

2/23/15

A dream doesn't become reality through magic; it takes sweat, determination and hard work.

-Colin Powell

Throughout this year's G.A.T.E. project there was an exceptional amount of hard work and creativity. Being in eighth grade, we were to design a drone and market it to customers. My company, Inspexs, is a spy drone business that specializes in producing drones modeled after various insects. My partner, Mark G., and I had a long plan to completing this project. We started with a website with the basic information to build everything else off of. After that it was fairly simple in replicating our data to different mediums like posters, power points, etc. We made a real-life and computer model that displayed our RoachRC which was modeled after a cockroach. In the end we ended up with a set of four drones: the RoachRC, ButterflyRC, MosquitoRC, and LadybugRC. Due to laws concerning privacy, we decided to market to government and federal spy projects only after running thorough background checks. However, we wouldn't have gotten anything as good as this if we didn't devote ourselves to hard work. If you have to give all that you have to make a worthy project then do it and stand tall in the end.

-Reagan Ochsmann

Gabriella Rivas

Madison Seger

WRITE UP

There had been little complications in the making of this process. Although there had been supplies and necessity deadlines we had pulled through. The project had been based on inhabiting a planet. We had to describe how long it would take, what we would do once we got there, etc. This had been one of the most informative experiences I have ever been through in a project. It makes me think of what we would do if we had decided to inhabit a planet. I want other kids to be able to experience the same thing I did. I wasn't really excited at first for this project because it seemed like a lot of work but it had been a very difficult and exceptional experience. On the more bright side we had learned a plentiful on the expenses and difficulties of inhabiting a planet. We had liked making the visual models because they had represented something that started from a small idea that had evolved into an actual representation and idea. Strange enough I had enjoyed answering all the questions that the parents had asked because I presume they didn't think that we knew much about what we were doing, but by answering the questions I felt like I was proving them wrong, like I was proving more than I led on. Although we had a few questions on the journaling due to confusion of whether we should journal about the progress on Phenix, our planet, we had decided that doing both would have been better. Overall this project had been very educational, fun, and a great experience.

Gallardo, Mark

I've recently participated in the seventh and eighth grade gate show case at Ivy Academia. We showcased our projects and work and our topic was to design a drone to have on the market. In the world of technology drones are becoming a big thing to use and it supposedly makes everyday life easier. When I started the project I definitely thought it was going to be fun and it met my expectations. Once I had my finished product it was time to do the showcase. During the showcase you need to talk to many people explaining what your drone does, why, and how. The first, about seven people I talked to, were a big part to my confidence now. I was very nervous at first and had butterflies, but throughout the showcase it became natural and everything went nice and easy. I had a great time showcasing my hard work and dedication. Once we got our feedback that our showcase was flawless and very well done, I felt great about my product.

Joshua S Daniel M. Eunice C. Jake T.

.GATE Review

Over the course of the project the four team member felt that this project was a great experience to venture in the entrepreneurial world. This project was about students developing a drone to help the modern world from a military drone, to a scientific purpose drone, to even a delivery purpose. With our G.A.T.E skills we didn't have any boundaries into the thinking like a modern entrepreneur and what they looked to buying our products. We had to incorporate knowledge on the business world, academic skills, and drone knowledge into a selling model for buyers. Our group can agree that we all enjoyed this project as we were able to connect with students that think like us, but as well as work like us. This project gives us the slightest appeal in all aspects of the world and what it has to offer us. We were required to make a tri-fold, a pickup drone, a website and anything else that would improve the look of our project. Overall we had to be able to sell our product to someone.

Our drone is called Solar Express which we decided that the functional purpose is that it delivers packages through solar energy instead of delivery men and women who ride their polluting trucks. Our drone is special because it represents the 21st century evolution of package delivery. We are teamed up with United States Postal Service as they are linked to millions of cities across the U.S. which gives us connection to those cities and expands our customer population. The drone is more efficient than our competitor Amazon who runs on electricity not eco-friendly products. Their package will go into our drone, so we both will have equal profit as well. We will not have our drone open to sell to the public as it will be an exclusive product. We were never in doubt about our project which shows how confident we were. We hope in the near future to be able to work together in another GATE project.