**Project Summary Template**

|  |  |  |
| --- | --- | --- |
| **Company Name** |  | |
| **Company Address** |  | |
| **Company Website** |  | |
| **Telephone** |  | |
| **Contact** |  | |
| **Title** |  | |
| **Email** |  | |
| **Telephone** |  | |
| **Project Title** | **Vida** | |
| **Project**  **Description** | **About the company:**  A fictitious startup company that just makes stuff that they’re interested in. This company is invested in making quality products that matter. Let’s be real, it’s just a team name than anything else for the T127 Computer Programmer Analyst Capstone Project.  **About the project:**  For the average person, hearing that the ISS will by passing by their skies at X time and in some general Y cardinal direction means nothing. Most will probably just look at some video of some space enthusiast or images captured by a space agency, and never truly have seen it pass by in the sky. Ever pulled up a telescope and looked out into the sky, trying to find the ISS without professional help and looking like a huge idiot? That’s what this project is here to remedy and make you look less dumb.  This project aims to assist those basic bitches by showing them exactly when and where to look by providing a Virtual Overlay on their ‘Smart Phones’ that MAYBE uses GPS data, motion control. It will be as if the smart phone was a window to another world that has the pathing of a CHOSEN satellite’s expected trajectory clearly lit up in the sky, given that they look at the right direction (If they are not looking at the right direction, the APP will tell them they are dumb and they gotta move in X direction). In addition, an icon standing for the satellite will appear on the trajectory, based on its current expected location.  Basically, this project is all about downloading free to access TLE data, parsing and processing the data, then pass it on to some (Unity) Engine to display it as a ‘Virtual World’. | |
| **Problem/**  **Opportunity Assessment \*** | 1. Satellite TLE data parsing and processing 2. Learning how satellite orbits work. 3. Calculating Real-time Satellite positioning 4. Creating a Database that holds the TLE data for each celestial satellite in the sky. 5. Automatic acquisition of TLE data snippets. (Don’t want that full 150+ GB payload) | |
| **Desired Project**  **Outcomes/**  **Requirements\*** | 1. Creating a single application that can create a virtual and visual model of a (group of) specified satellite(s)’s trajectory with a stand in object being the satellite’s current location. 2. End users can access and view satellite data at a near on-demand basis (gotta make sure TLE data is up to date and let that graphics engine start up). 3. Automatic TLE data acquisition, parsing, and processing. 4. Accurate projection of satellite trajectory and position. | |
| **Key Deliverables to be produced by students\*** | 1. Everything | |
| **Desired Start Date** | NOW (SEPT 2018) | |
| **Desired End Date** | TOMORROW (APR 2019) | |
| **Attachments** | *List attachments that support project description* | |
| 1 |  |
|  | 2 |  |

\* Please add fields as required