**Project Assignment, Step 1**

**Idea 1**

Consolidated information handling database (Database GUI, Organization System)

**Background:**

Being in the active duty, I’ve dealt with programs that were not consistent in gathering required information that can be used to provide a consolidated personnel/training roster to senior leadership. This will included an availability calendar that will show the senior leader who in his section are available for that month.

**Bullet Ideas:**

* Build a user friendly database that is easy to understand.
* Provide drop down options to select from.
* Calendar availability for individual personnel.
* Program a function that will export selected information

**Conclusion:**

Overall, I would like to make a product that can be used by all sections in a command that will eliminate multiple useless rosters that will be generated. This product is intended for the small unit leaders at the section level.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Idea 2**

Basic Learning application for toddlers (Strategy Game)

**Background:**

As a father of two, teaching children the basic fundamentals of letters and numbers are essential in the growth and development of the brain. The development of an application to help parents develop their kids is as important as their first day of school. With todays’ hectic day to day lifestyle the use of flash card and other physical learning tools are a thing of the past. An application will help in the ease of have everything that is needed available in their personal devices.

**Bullet Ideas:**

* Provide A – Z alphabets that is easily read.
* Program a flip card for each alphabet with a corresponding picture.
* Alphabet pronunciation sound that is easily understandable.
* Provide 1 – 20 numbers easily read.
* Program a flip card function that mixes the 0 – 9 numbers randomly.
* Provide a simple addition and subtraction function.

**Conclusion:**

I want to create an application that will make it easier for the working parents to have convenient access to a personal device application to help develop their young toddlers. With today’s new age technology, this will eliminate the inconvenience of having to carry additional materials if they are on the go.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Idea 3**

Airfield surface design application

**Background:**

As a service member in active duty, my job specialty requires us to design, build and maintain airfields. I’m looking to build a simple application that will be used to ease the process of designing a certain airfield.

**Bullet Idea:**

* Program preset measurements for any designed dimension of the airfield surface.
* Program required specification for airfield dimension design.
* Include required specifications needed to include visual aide, lights.
* Include required specification needed for traffic marking patterns.

**Conclusion:**

This program will help the average personnel to rapidly design and present an airfield surface according the specifications what will expedite the construction process. If the program is successfully built, this will design an operating airfield surface that included all lighting and visual aid and require traffic marking patterns to the military personnel.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Idea 4**

Consolidated testing program (Electronic Learning System)

**Background:**

Testing materials are required to be administered to designated mechanical technicians. This tests is used to measure the person’s knowledge on all maintenance, inspection and operating procedures outline in the manuals.

**Bullet Idea:**

* Develop a console based application that is user friendly
* Generate a question pool that is randomly selected as a test is administered.
* Include all require prerequisites needed before taking test.
* Include all pertinent training completion in the database for ease of reviewing.

**Conclusion:**

A console based application with all the required programs and materials easily accessible will provide the senior officer the ease of administering a required test to his/her personnel to ensure their mechanical/technical proficiency are tested on the regular basis without generating multiple and unnecessary outdated test.