# Goldenwolf Internship

Jack Hillman



# **About Goldenwolf**

☐ Located in Huntingtown, Md



☐ Approximately 150 employees



☐ Specializes in facility management services

☐ Provides program management and analytics for BUILDER and DMLSS



**Tracking Real Asset Collection Engine** 



- ☐ Provide a log of tagged items to upload into DMLSS (Defense Medical Logistic Standard Support).
- ☐ Automatically print tags for each piece of equipment for easy identification and look up.

### Challenges

- ☐ Rapidly changing requirements
- Unreliable connectivity
- ☐ Communication across time zones

### **Classroom Experiences**

- Documentation practices
- ☐ Algorithm efficiency
- ☐ File manipulation

- ☐ Importance of accurate requirements
- ☐ Effective communication with users
- ☐ Long term effects of coding decisions

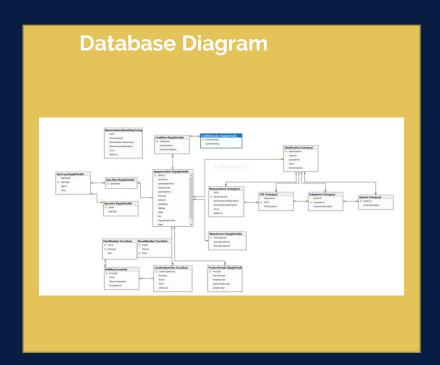
# T.R.A.C.E.

Tracking Real Asset Collection Engine

Site	Start Date	End Date	Square Feet	Tags
Naples, Italy	12/4/17	1/21/18	170,000	3,300
Guam	1/21/18	2/21/18	292,000	5,500
Nairobi, Kenya	2/21/18	3/7/18	85,000	2,400
Okinawa, Japan	4/14/18	7/14/18	750,000	12,000
Yokosuka, Japan	8/4/18	9/29/18	380,000	7,000
San Diego	10/14/18	11/17/18	120,000	1,800
Bethesda	11/26/18	12/10/18	135,000	1,000
Rota, Spain				
Total	12/4/17	12/10/18	1,932,000	33,000

# T.R.A.C.E.

Tracking Real Asset Collection Engine







# T.R.A.C.E. Q.A.

**Tracking Real Asset Collection Engine Quality Assurance** 

☐ Assess the	e accurac	v of inventor\	/ collection	efforts.
	0 0.0 0 0 0.0	,		

- ☐ Provide feedback for tagging teams in order to fix errors.
- ☐ Export results to management in presentable format.

### Challenges

- ☐ End user technical ability
- Unreliable connectivity
- ☐ Large and inconsistent data sets

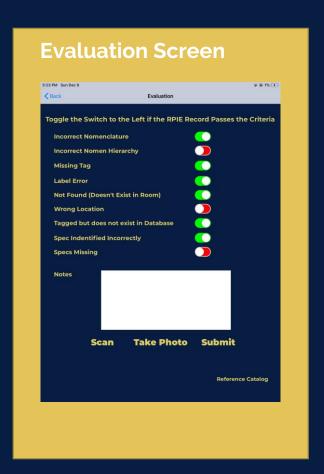
# **Classroom Experiences**

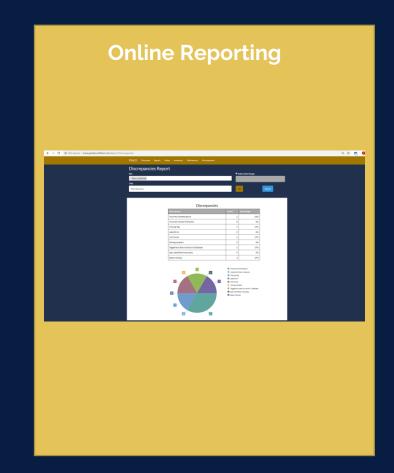
- ☐ Client interaction techniques
- ☐ Database design
- ☐ User interface design

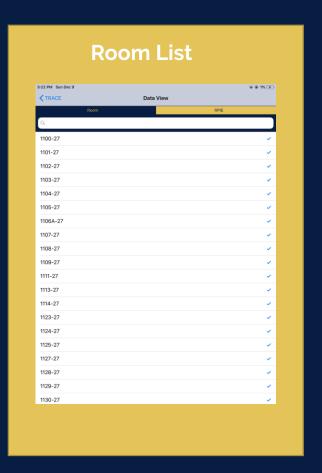
- ☐ NoSQL database development
- ☐ IOS development using Swift
- □ Asynchronous loading of data

# T.R.A.C.E. Q.A.

Tracking Real Asset Collection Engine Quality Assurance









**Condition Assessment Requirement Validation Engine** 

- ☐ Provide an interface for inventory, inspection, and work planning
- ☐ Allow smart creation of sections based on certain criteria
- ☐ Directly upload data into BUILDER

### Challenges

- ☐ Having to wait on information and resources
- ☐ Learning a new language
- ☐ Understanding modules to be implemented

# **Classroom Experiences**

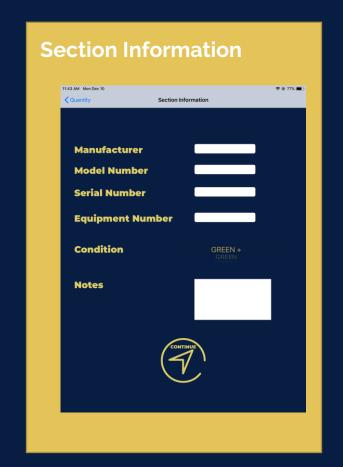
- ☐ Working in a team environment
- Documentation practices
- ☐ User interface design

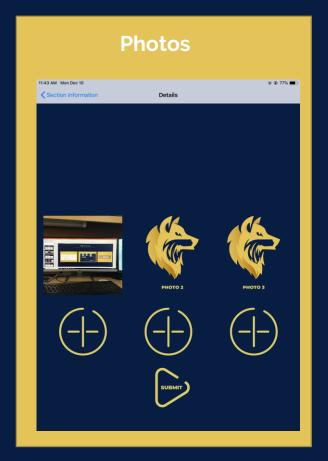
- ☐ Xcode environment and Swift programming
- ☐ Xcode and Git interaction
- □ Asynchronous loading of data

# C.A.R.V.E.

**Condition Assessment Requirement Validation Engine** 









D .			
 Latormino	Woldhto	tor oh	
Determine	MACIOI II S	101 00	IECHVES.

- ☐ Aggregate responses from multiple users.
- ☐ Rate the consistency of responses and allow for adjustment.

### Challenges

- □ Asynchronous loading of data
- ☐ Handling multiple users responses
- ☐ Complicated underlying math

# **Classroom Experiences**

- ☐ Web development principles
- Matrix operations
- ☐ User interface design

- ☐ Web development basics
- ☐ Handling of all possible user input
- □ Asynchronous loading of data



#### **Analytical Hierarchy Process**

