

# Secure Avionics Flight Firmware Installation Routine System Design

MITRE eCTF 2022  
Team **Cacti**  
University at Buffalo

## **1 Introduction**

This section presents the entities and communication channels in the system.

### **1.1 Entities**

The following summarizes the entities in the system.

### **1.2 Communication Channels**

## **2 Attack Models**

The attackers can carry out the following attacks:

## **3 Our Design**

### **3.1 points....**

### **3.2 Key Generation and Storage**

### **3.3 Prevent Replay Attack**

### **3.4 Build Process**

Describe the important changes in build process.

## **4 Implementation**

### **4.1 Critical Functions and Files**