Battlefield Augmented Reality

Off-The-Grid Hackathon
Individual Pitch

Who Is Our Team & What Are Our Skills?

- Passion for a solution and hunger to move forward with our ideas!
- UCSD / SDSU - university education
- Multidisciplinary Skills (many angles of approach)
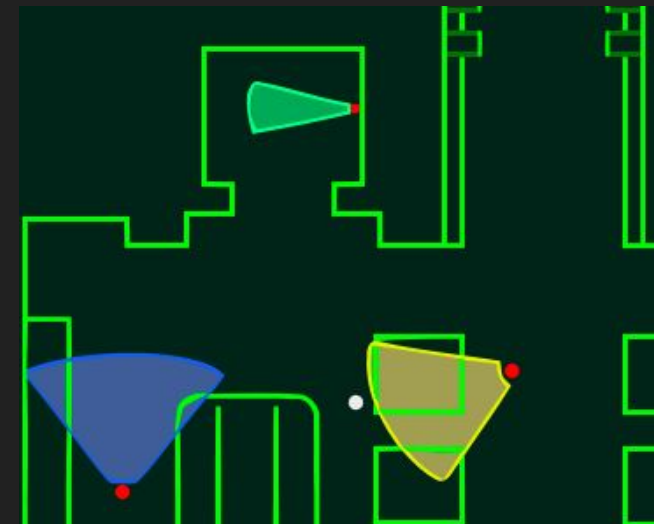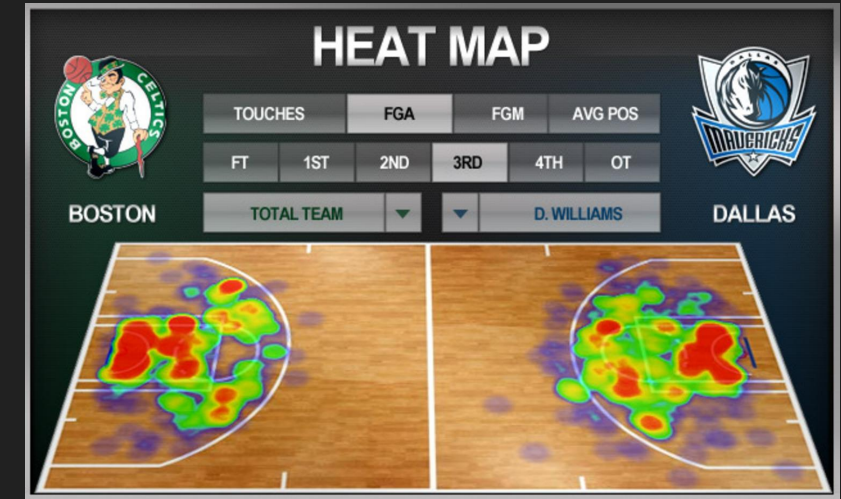 - Computer Science
  - Electrical Engineering
  - Bioengineering

Problem Statement

How can US Army Special Operations Forces (SOF) effectively optimize limited resources such as battery power, large data sets and training time to have intel on the nature of selected targets based on information obtained from a video camera via machine learning algorithms.
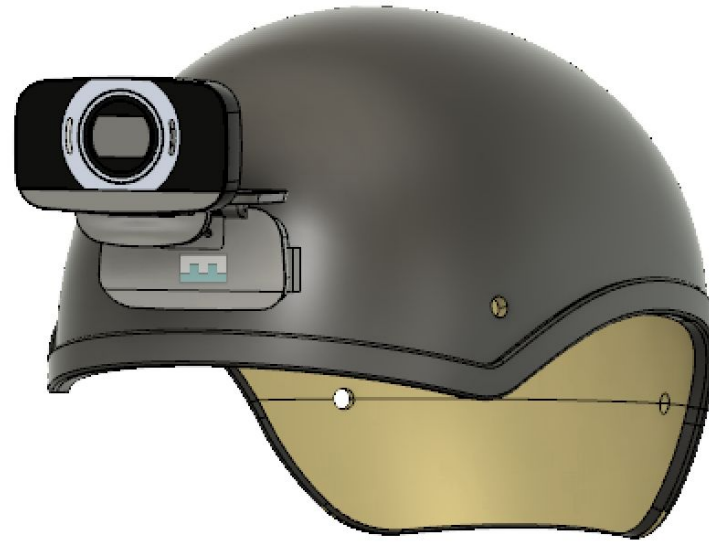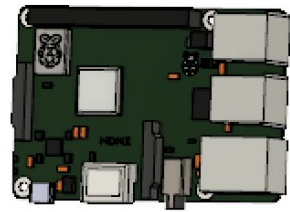
Our Project

- **Improving Commander Field Of View Using Field Soldiers**
  - ○ Constraints exist relating to individual POV operations.
  - ○ **Minimize battery usage** by sending video feedback to central command.
  - ○ Understand the field of view of the squadron at **any point in time** using machine learning.

Created Solutions

Helmet with
mounted Camera.

Context And Credit For Solutions

- Discussions With Mentors
  - Philip Riglick - Ideation process, context of the battlefield, SF experiences
  - Nick Hannan - Electromagnetics spectrum manager
  - Mo Elalem - Chemical Engineer for US Army CCDC Armaments Center