Carma Cam1 Overview

Overview
Carma’s Cam1 will be able to capture a video stream as JPEG’s that will be sent through wifi by the Raspberry Pi, to our server. Once it is received by our servers, it identifies the account that it is associated to the received stream. Then it sends the stream to the phone numbers that account chose, as well as their gps location.

Hardware / Key Components
- Raspberry Pi 3
- Raspbian Jesse OS
- 802.11n Wireless Lan
- Micro SD Card Slot
- Camera Module V2
  - Capable of 1080p 30fps
  - Connected with Ribbonwire
  - Integration with pi via Picamera

Apps
- Connect to RTSP data stream, authenticate, and stream video in real-time.

Conclusion
We now understand the importance of finding product market fit prior to designing a product. Future iterations of this product would include creating a PCB to function with our current app. We learned that the costs and problems associated with creating a hardware product makes a hardware startup difficult. Thus, moving forward, the software team will focus on app development.

Acknowledgements:
We would like to thank our instructors: Ilan Ben-Yaacov, Ekta Prashnani, as well as our mentor Alex Fang.