

Flarebot Evolution II



Team 3

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Project Summary

Flarean has a passion and mission to improve public safety through its unique implementation of Internet of Things (IoT) devices. Flarebot is a communication device that alerts and directs people during emergency situations. The devices communicate to each other over Wi-Fi or LTE networks and to the public via the built in LEDs. Flarebot Evolution II continues the tradition of its predecessor and improves upon key areas to maximize the potential of the Flarebot design. While incorporating new design elements, aspects to be

improved are physical size of the electrical housing, weather resistance, and physical strength.

Design Goal

To design, build and test prototypes with the improved specifications that can be readily implemented on existing infrastructure.

Design Constraints

- The device shall contain LED lights in a 360-degree orientation
- The device shall be smaller than the previous prototype by 10% to 50%.
- The device shall be resistant to various weather conditions.
- The device shall be capable of receiving and sending data over varying distances.
- The device shall implement a MESH network that will be self-healing and fully connected.
- The device shall be secured on both poles and walls with no slipping.

