

ZICKEL ENGINEERING

One Stop Solutions

The zNav provides to emergency event management personnel real time Location Situational Awareness Reports from all team members. The zNav location, path and events are displayed on a variety of high-end Android devices.



zNav

zNav - personal
body-mounted
locator and
mapping tool

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The zNav is a locator and mapping tool, specially designed for a wide range of operations in harsh environments where GNSS or other external beacons are unavailable. The zNav passed environmental tests according to MIL-STD-810F, MIL-STD-461, and is rated IP66.

Zickel Engineering

1st responders, such as firefighters, police officers, EMTs, paramedics, search & rescue teams, SOFs, emergency management personnel, and others, need the zNav locator by Zickel Engineering.



zNav



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The zNav performs feature based Aided Dead Reckoning (ADR). It combines IMU measurements with magnetic flux, barometric pressure and Doppler measurements by implementing state-of-the-art machine learning algorithms.

Hundreds of dynamic features are scanned and combined to predict the velocity, position and direction of highly agitated platforms.

The zNav calculates dead-reckoning position with high accuracy compared to classic INS or DR implementations. Whenever GNSS signals are available, sensor fusion anchors the path with the solid ground position reference.

The zNav suits belt, vest or helmet mounting. Combining it with a GoPro camera, enables enhanced events documentation.