



Vy Corporation

Software for Visual Analytics and Sensor Fusion

**Prepared for
Aladdin Proposer's Day
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Purpose

- **Introduce highly reliable (> 99% accurate) motion video technology prototyped under DARPA contract**
- **Need funding and a partner to take technology to operational status in a field environment**
 - **Moving camera motion detector**
 - **Object tagging and tracking from multiple cameras**
 - **Mosaic (match) live video to grand field of view in static satellite imagery**

Implementation: Viper-150

Embedded Visual Analytics Module:
open source, closed appliance rack mount



Recent Developments

- **QT front-end for cross platform compatibility and User Interface**
- **Successfully converting imperfect pixel formations into Bezier curves**
- **Figure of Merit is Reach-Out Distance**
- **Language of shapes tied, initially, to Bezier curves**
- **Key to robustness is a priori knowledge of shapes: people, vehicles, and weapons**

Summary

- **Highly reliable (> 99% accurate) motion video technology prototyped under DARPA contract**
- **Leverage prior development for rapid deployment by tying funding to quarterly milestones and stand-alone deliverables**
- **Reliable method for analysts to search video for objects or activities of interest in real time or post mission**

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