Alpha Presentation

3D Scene Reconstruction of Vehicle Accidents

The Capstone Experience
Team CSAA Insurance Innovation

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Project Overview

- Recreate 3D model to analyze vehicle accidents
- Annotate damages
- Compare to undamaged vehicle
- Provide comprehensive damage reports
- Aid analysts and customers in discerning next steps
System Architecture

The Capstone Experience

Team CSAA Insurance Innovation Alpha Presentation
Before and After View with Annotations
Stacked View With System Preferences
Rotated Vehicle with Vehicle Info
Back End Model

Pose Estimation

3D Point Cloud
What’s left to do?

• UI
  ▪ Finish scene rotation
  ▪ VR interface
  ▪ Back-end UI menu
• 3D Scene Reconstruction
  ▪ Background removal
  ▪ Improve quality
  ▪ Increase input tolerance
  ▪ Reduce processing time
Questions?