ST. CLAIR COLLEGE
RESEARCH AND INNOVATION

Construction Inspection Process

Project Overview
This initiative sought to replace industry leaders informal visual inspection with a sophisticated AR solution, facilitating precise pipeline verification. By leveraging AR technology, the project aimed to introduce a more accurate, efficient, and user-friendly inspection method.

Purpose
The goal was to transform industry leaders inspection process by developing an AR application to overlay building CAD designs onto the real world, enhancing the accuracy and efficiency of pipeline inspections.

Company Background
Through a partnership between academia and industry, this project represents an innovative blend of theoretical knowledge and practical application. It emphasizes the commitment of both St. Clair College and industry leaders in advantaging construction systems.

Deliverables
- **AR Application:** Transfers partners building CAD designs into an augmented reality environment, offering a more interactive and precise inspection process.
- **Vuforia Area Target Recognition:** Integrates advanced area target recognition capabilities to accurately localize AR assets within physical space.
- **Cross-Platform Application:** Develops a versatile application using Unity, ensuring accessibility across multiple platforms for widespread use.