Beta Presentation
Railroad Switch Alignment Training
The Capstone Experience
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Project Overview

• ‘Railroad Switch Alignment Training’ sponsored by Union Pacific
• Correct switch identification is crucial
• Set of simulations for training purposes
  ▪ Allows for efficient repetition
  ▪ From a safe environment
System Architecture

User Access

Course

Learning Management System

SCORM API

SCORM Integration kit

Unity 3D

Builds

WebGL

File Server

Student Records
Tutorial Pause

This is a Facing Point Switch

Press the left or right arrow, depending on which way the train will travel.
Gameplay

Switches Identified: 2/2
Level Complete

Level Score: 100%

Retry      Exit
SCORM results
Level Builder
What’s left to do?

• Stretch Goals
  ▪ Playback speed
  ▪ Help page (level builder)
  ▪ Individual reaction times

• Other Tasks
  ▪ UI improvement
Questions?