From Students…
…to Professionals

MICHIGAN STATE UNIVERSITY

Beta Presentation
Navigating Campus Using Augmented Reality
The Capstone Experience
Team Michigan State University

Minseo Baik
Shaye Beadling
Yongqi Han
Austin Pfeil
Paul Rosemurgy

Department of Computer Science and Engineering
Michigan State University
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Project Overview

• Labeling buildings
  ▪ Currently, many buildings on campus are similar looking and labels of building names are not obvious
  ▪ By using our app, users can see a building name on top of each building and some descriptions using AR

• Wayfinding
  ▪ Navigating campus using a physical or digital map is slow because a user needs to know surrounding information
  ▪ AR tech can make navigating and exploring campus easier and more intuitive for new students and visitors by inserting graphics into the real world
System Architecture

ArcGIS

Request Information

Building & Wayfinding Info

JSON

iOS

Swift

ARKit

Xcode

iOS

Android

Android Studio

ARCore

Kotlin

Android

Request Information
iOS Touring
iOS Searching
iOS Wayfinding
Android Touring
Android Searching
Android Wayfinding
What’s left to do?

• UI improvements
  ▪ Show better ETA
  ▪ Match the app icon
  ▪ Have a unique style for labels that are clickable
  ▪ 2D mini-map

• How-to dialog

• Alert when the user is too far off path
Questions?