From Students…
…to Professionals

MICHIGAN STATE UNIVERSITY

Alpha Presentation
Ford Smart Park App

The Capstone Experience

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Project Overview

• Functionalities
  ▪ Flag open parking spots by answering questions
  ▪ View nearby open parking spots
  ▪ Utilize AR to view Ford vehicle models

• Features
  ▪ Support Android mobile devices
  ▪ Add and view owned vehicles
  ▪ Provide reward incentives
    o Leaderboard

• Technologies
  ▪ Android Studio (Java)
  ▪ Google Tango (Lenovo Phab 2 Pro)
  ▪ Firebase
  ▪ Sync 3 Emulator & TDK
System Architecture

SYNC

Android Studio

Firebase

Tango
Main Menu
Identify Spot

What is the status of the spot?
- Occupied
- Available

What is the size of the parking spot?
- Regular
- Compact

If you are in a parking garage, what is the max height? (If not, enter 0)

Feet

Inches

Submit
AR Parking
What’s left to do?

- Link GPS navigation to parking spot
  - Display parking spots based on location
- Integrate Google Tango within the app
  - Display a list of the user’s vehicles
- Finish up Area Learning of AR
- Integrate app with Sync 3
- Improve UI
- Etc
Questions?