From Students…
…to Professionals

MICHIGAN STATE UNIVERSITY

Beta Presentation
2020 Business in a Box

The Capstone Experience
Team DRIVEN-4

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Project Overview

• Provide IoT Solutions to Manufacturers
• Develop Interface for Connected Device Solution
  ▪ Manufacturer Portal Web Application
  ▪ Customer Web Application
  ▪ Augmented Reality of Connected Device
  ▪ Digital Connected Device Simulation
System Architecture

- Manufacturer’s Portal
  - React
- Consumer View
  - Laravel
- Module
  - Particle
- Data Stream
- REST API
- Java Device Simulator
- Java
- Visualization
  - thingworx studio
Manufacturer Dashboard

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<th>lastMovementMagnitude</th>
<th>currentTemp</th>
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Customers - Lansing Area

Current Device Magnitudes

[Map and graph showing device magnitudes and locations]
Customer View
Device AR
Device Simulator

- Master Bedroom: Matress, Running: ✔
- Main Laundry: Washer, Running: ✔
- Bad Device 1: Broken Accelerometer, Running: ✔
- Bad Device 2: Dying Batteries, Running: ✔
- Hacker: Malicious Device, Running: 
- Second Bedroom: Matress, Running: 

Buttons:
- Add New Device
- Stop All
- Save Devices
- Load Devices
What’s left to do?

• Additional Widget Configuration
• Improve UX of Java Simulator
• Installation Process for DRIVEN-4
• Documentation & User Guide for Portal
• Improve Use Case
Questions?