Alpha Presentation
Tooling Kit Content Verification System
The Capstone Experience
Team United Airlines

Andrew Ashton
Scott Campbell
Evan Childs
Bill Geshwender
Vlad Jojo Otchere

Department of Computer Science and Engineering
Michigan State University
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Project Overview

• To perform proper maintenance of its airplanes, United needs a way to determine if a toolkit is complete or not.
• iOS mobile application for technicians to validate required tools are contained in toolkit
• Python web application
• OpenCV library used for image analysis
• iOS app written in Swift 4.2
• Django web framework
System Architecture

- PostgreSQL Tooling Database
- OpenCV
- Apache/Django Server
- Web Portal
- Technician Application (iOS)
- Python 3
- HTTP
- HTTP communication using Alamofire
What’s left to do?

• Handle small tools
• Expand image processing to additional toolkits
• Store images, check in and check out attempts within database
Questions?