

**John Deere Augmented Reality Mobile App**  
**491 Weekly Report - MAY1609**  
**Week 14 (12/08/15 - 1/16/16)**

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**Advisors:** Manimaran Govindarasu

**Client:** Benazir Fateh, Intelligent Solutions Group, John Deere, Urbandale

**Members:**

Collin Goedken, Team Leader

Josh Harper, Key Concepts Holder

Jordan Harper, Webmaster

Matt Koziy, Key Concepts Holder

Ben Myshkowec, Communicator

Brent Barth, Communicator

Joel DeLong, Webmaster

**Project Title:** Augmented Reality Mobile App for Vehicle Maintenance

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**Weekly Summary**

This weekly report covers the duration of Christmas break and the first week of the second semester. Our group talked to our client before the break and came to an agreement to send them a video of our progress over break. All of us worked hard over break and make great progress on the application.

**Meeting Notes**

Over Break -- Online Meetings

Duration: 1 Hour

Purpose and Goals:

- Communicate with group members over the break
- Finish the planned implementations

Achievements:

- added the new UI into the application
- Replaced Vuforia virtual reality with Wikitude virtual reality
- User sign up validation
- Wikitude functionality changes
- All code committed and pushed to github
- Documented changes
- Created app video and run through
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1/14/16 -- Member Meeting

Duration: 1 Hour

Purpose and Goals:

- Discuss new semester plans
- Made Doodle poll for meeting times
- Discuss application issues

Achievements

- Made Doodle poll
- Discussed meeting times
- Discussed 492 class requirements and project documents

**Pending Issues**

- Will need to communicate with TI board and be able to send data
- Wikitude image recognition and augmented reality
- Work on overlaying augmented objects with 3D recognition
- Implement form validation into rest of app

**Plans for next week**

- Receive TI board once we do, test with the board
- User interface touch ups
- Wikitude touch ups and research augmentation procedure
- Continue working on adding new features into old project

**Individual Contributions**

Collin: Removed Vuforia, added Wikitude (20 hours)

Matt: Added bluetooth functionality to application (15 hours)

Brent: Sign up form validation (16 hours)

Joel: Integrated new UI into old application (14 hours)

Ben: Sign up form validation (13 hours)

Jordan: UI feature enhancements (17 hours)

Josh: Wikitude design and feature updates (17 hours)

**Total Contributions (Running Total):**

Collin: 99 hours

Matt: 90 hours

Brent: 65 hours

Joel: 65 hours

Ben: 62 hours

Jordan: 66 hours

Josh: 61 hours