

**John Deere Augmented Reality Mobile App**  
**491 Weekly Report - MAY1609**  
**Week 11 (11/10/15 - 11/17/15)**

---

**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

---

**Weekly Summary**

This week was composed of a group meeting and communication with the client. Our weekly meeting with our advisor was cancelled as he was out of town on travel. Our group meeting consisted of us discussing our design issues and goals. We also talked about bluetooth connections between two iOS devices. We stayed in contact with the client through email this week. There was no phone meeting with the client.

**Meeting Notes**

November 3, 2015 -- Group Meeting

Duration: 1 hour

**Purpose and Goals:**

- Discuss demo
- Presentation

**Achievements:**

- Expectations for Presentation
- Demonstration with client expectations

November 6, 2015 -- Client communication (email)

**Purpose and Goals:**

- Receive new equipment
- On campus demo

**Achievements:**

- Able to set up meeting time to receive new iOS phone
- expecting to receive TI board soon

**Pending Issues**

- Will need to communicate with TI board and be able to send data
- Wikitude works on small environments, needs to be tested on large scale farm equipment
- Work on overlaying augmented objects with 3D recognition

**Plans for next week**

- Wrap up presentation information
- Finish iOS peripheral development. Test with TI board
- User interface
- Wikitude development on large scale objects

**Individual Contributions**

Collin: wikitude implementation (15 hours)

Matt: linux/iOS bluetooth detection/connection, meetings (10 hours).

Brent: Finish up documentation, communication with client, meetings (5 hours)

Joel: Finish up documentation, user interface implementation, meetings (5 hours)

Ben: Finish up documentation, front end iOS user validation, meetings (5 hours)

Jordan: Finish up documentation, user interface, meetings (5 hours)

Josh: Finish up documentation, user interface, meetings (5 hours)

**Total Contributions (Running Total):**

Collin: 64 hours

Matt: 60 hours

Brent: 39 hours

Joel: 41 hours

Ben: 39 hours

Jordan: 39 hours

Josh: 34 hours