

Group number: May 1715

Project title: Internet of Machines

Client &/Advisor: Vermeer, Allison Thongvanh

*Team Members/Role: Dean VanEvery/Team Leader, Cody Lample/Key
Concept Holder, James A Kluesner, Matthew Gustin/Webmaster, Sam
Ellis/Communications Leader, Yulin Song, Kojo Otchere-Badu*

o **Weekly Summary (Short summary about what you did this week)**

We compiled a list of possible approaches for our project and presented them to our sponsors from Vermeer. We were able to meet with two additional members of Vermeer in addition to our original sponsor, Allison, who were able to help narrow the scope of the project and gave feedback on our research. A special meeting to tour the Vermeer plant and see existing technologies related to our project was also arranged, which will take place this upcoming week.

o **Past week accomplishments (please describe as what was done, by whom, when)**

- Matt Gustin – Found several possible projects to look at for reference as to how we will implement our solution.
- Dean VanEvery – Researched sensor hardware we may use to collect data for storage on the central server
- Sam Ellis – Arranged tour meeting with Vermeer representatives, researched quad-copter options
- Kojo Otchere-Badu – Researched projects which might be beneficial to Vermeer.
- Cody Lample - Researched and Evaluated sensor technologies and interfaces with raspberry Pi.
- James Kluesner - Researching into potential quadcopter platforms to purchase for use.

o **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Cody Lample	Researched internal & external sensors for quadcopters	2	4
Dean VanEvery			
James Kluesner	Researching into quadcopters	2	3
Matt Gustin	Researched rasp pi weather stations	1	3
Sam Ellis	Arranged tour meeting	1	4
Yulin Song			
Kojo Otchere-Badu	Researched Raspberry Pi programming	1	3

o **Comments and extended discussion**

Because the sponsor for our group has changed, we may need to re-evaluate certain expectations of our project. The extra meeting scheduled for this week will hopefully be a good way to address this. Additionally, we will need to discuss technical roles in the project, as the route we're proceeding with will have many different software and hardware requirements.

o **Plan for coming week (please describe as what, who, when)**

- All: attend Vermeer tour; assess options for quad-copter applications and related sensors.