Element J: Documentation of external evaluation

During the course of the school year, we presented twice in front of a panel of engineers to give feedback on our projects. The first presentation had an engineer come in during November 2012. At this time, we had just begun to start our brainstorming process. Therefore, we created a PowerPoint of the work we had done thus far to get their feedback for advice on our work and how to continue. The engineer listened to a preview of our products within a PowerPoint, very similar to what our final presentation incorporated. After we presented, we had a question and answer time, where the engineer had input on what we should focus on and continue to improve.

- The engineer (Michele R.B. Malinowski, PE | Senior Project Engineer, Electronics for Badger Meter) gave us good advice on how to proceed with our project. Her biggest piece of advice was to broaden our possible solutions. She mentioned that our possible solutions at that point were narrow minded and not that effective. Michele gave us insight to think of software applications to solve our problem statement. This idea eventually became our final design.

Feedback from Michele Malinowski and [instructor name redacted]Instructor):

Our next presentation was in May 2013. At this time, we had completed our prototype and tested our product. We were then able to create a presentation of our entire design process. We were able to present in front of a panel of engineers, family, and friends. Thepanel of engineers included:

- Michele R.B. Malinowski, PE | Senior Project Engineer, Electronics for Badger Meter
- Bonnie Freudinger – Engineer | Biotechnology and Bioengineering Center |
- Physiology Department | Medical College of Wisconsin Brian Landing - Biomedical Engineer | Biotechnology and Bioengineering Center | Physiology Department | Medical College of Wisconsin
- Jon K. Jensen, Ph.D. | Associate Dean | College of Engineering | Marquette University
- Tim Sobotka | Educational Program Manager | Biotechnology & Bioengineering Center and Innovation Center | Medical College of Wisconsin
- [instructor name redacted] | M.S. Chemical Engineering | *[course name redacted]*
- Edith Fork |
- B.S. Mechanical Engineering | Purdue University David Fork | B.S. Mechanical Engineering | Rexnord
- Matt Paradise | M.S. Mechanical Engineering | Marquette University | Harley Davidson

After our final presentation we received many comments about continuing our design to create an app. They were particularly interested in what our app would look like in final stages. This could be a basic app with the addition of a "Critical" or "Non-Critical" display. The engineers were specifically interested in what we learned from this design process, and the completion of the app.

Consumers like our family and friends enjoyed our presentation, and were interested in a possible app for our design. Like the engineers, the idea of an app was appealing to them and they said it is an excellent idea. Overall, the engineers and consumers enjoyed our presentation and advised us to continue our design into the creation of an APP to market on Android, Google, or Apple Markets.