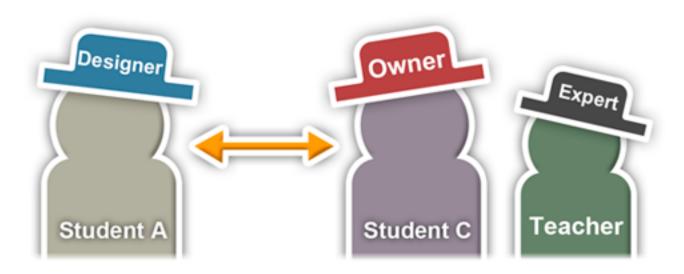
Teaching Product Design with a Role-Playing Game

Prof. Wai-Yin Ng and Mr. William K.Y. Hui Department of Information Engineering CUHK

Oct 2010



Background

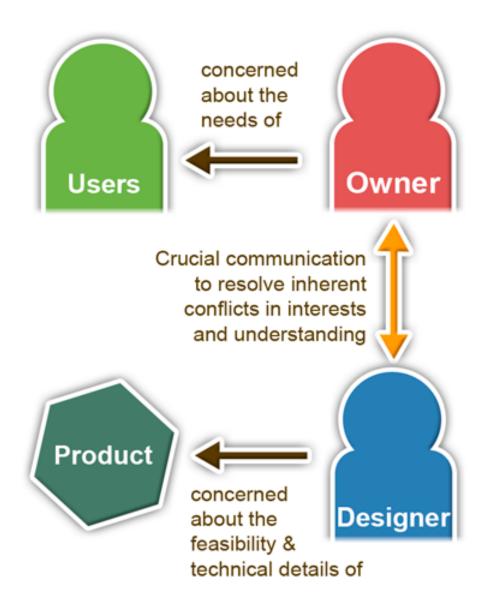


Fig 1. Conceptual model of "Custom Product Design" used in the course

The Standard Method and Its Short-Comings

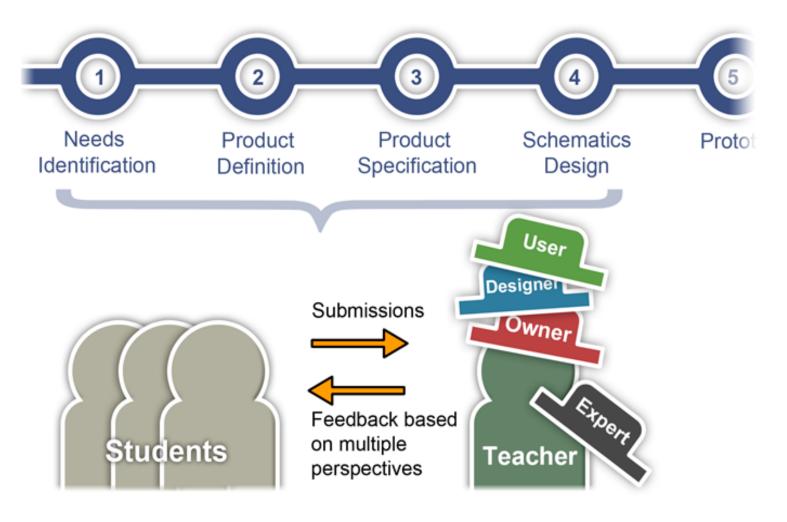
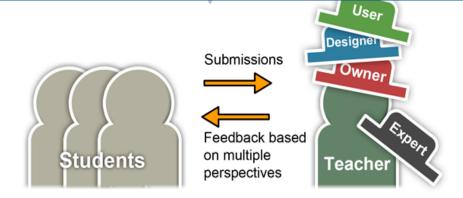


Fig.2 Teacher, as sole assessor, put on different hats during various stages of the course.

The Standard Method and Its Short-comings

- Students <u>misunderstand teacher's feedback</u> as mere comments rather than critique arising from different perspectives
- Multiple "hats" or roles is demanding to teacher
- Students fail to think in the shoes of other people involved, especially Owner and User



The Role Playing Game

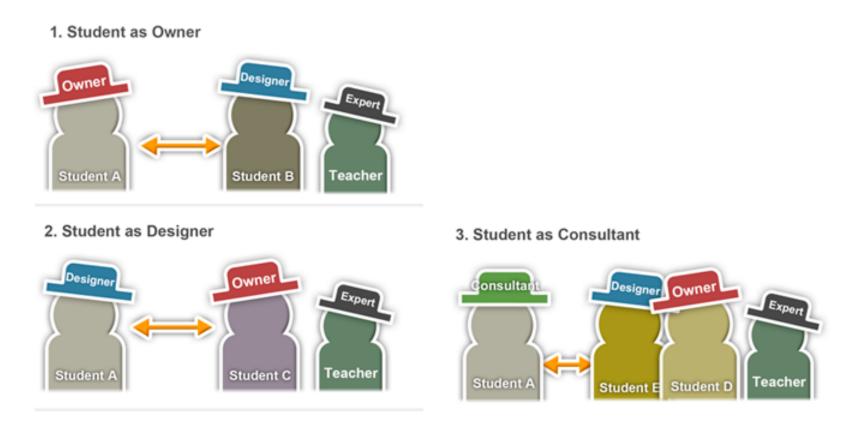
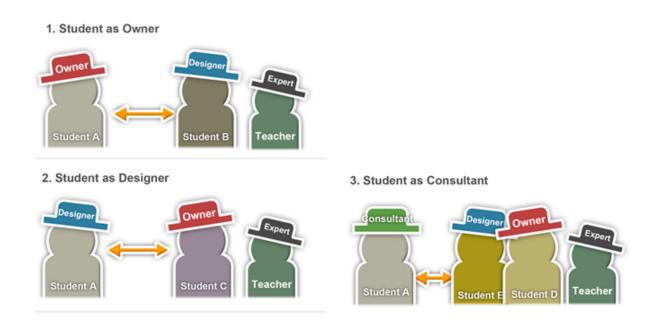


Fig 3. Roles that students will take during the role-playing games

The Role-Playing Game

Goals:

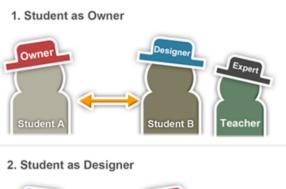
- Appreciation of <u>different perspectives</u> in product design
- Experience in the <u>balancing interests of different roles</u> with natural and contending considerations
- Appreciation of the <u>importance of professional</u> <u>communication practices</u> in product designs (e.g. spec and schematics)

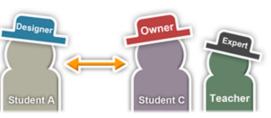


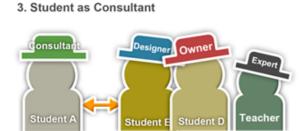
The Role-Playing Game

Advantages:

- Noticeable changes in students' behavior in different roles
- Students show better understanding of the <u>tension</u> <u>between Owner and Designer</u>
- Students gain experience in working with other parties rather than just the teacher, and can now critique designs from different perspectives (even their own!)







Conclusion

- Practical yet fun way to teach and learn product design.
- Role playing <u>reduces idealism and fantasy</u> and provides a reality check efficiently through the tension in role playing.
- Other topics may benefit from the role-playing model

Department of Information Engineering The Chinese University of Hong Kong

Prof. Wai-Yin Ng wyng@ie.cuhk.edu.hk William K.Y. Hui kyhui6@ie.cuhk.edu.hk