

Advanced SolidWorks course curriculum development 02/20/2017

Group: F

- Naser Alhajri (Client Contact)
- Yousef Alhaddad (Project Manager)
- Mohammad Alfadhli (Secretary/ Document manger)
- Muhammad Alhajri (Web Designer)
- Abdualziz Alajmi (Budget Liaison)

Client's Information [1]

▶ Dr. Sarah Oman
Mechanical Engineering
Sarah.oman@nau.edu



▶ Mechanical Engineering Department

Project Description

- ▶ New course ME180 for sophomore level or higher.
- ▶ Tutorials for instructor and students.
- ▶ Dr. Sarah Omen with Mechanical Engineering department
- ▶ To easy to use and enhancing the students ' creativity in the design process'.

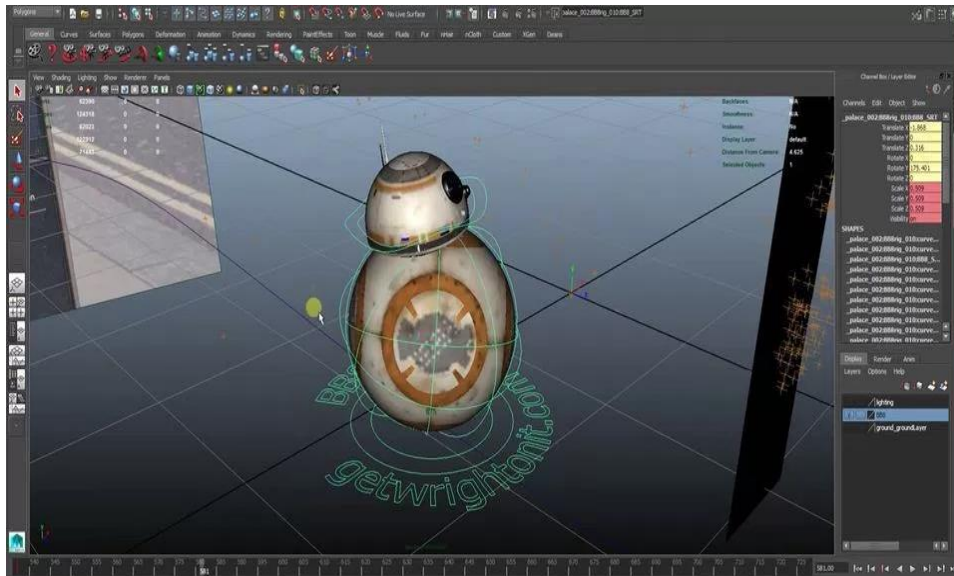
Background & Benchmarking [2]

- ▶ AutoCAD
 - ▶ Create complex design
 - ▶ Modeling AutoCAD with Windows 7 and Vista
- ▶ AutoCAD 3D



Background & Benchmarking [3-5]

- ▶ AUTODESK
 - ▶ Autodesk For Engineers
 - ▶ Autodesk For Architects
- ▶ Fortus 400



FORTUS
3D PRODUCTION SYSTEMS



Customer Requirements [6]

- ▶ Work more on tutorials
- ▶ 3-D sketches
- ▶ Theme
- ▶ Take examples from real life
- ▶ Work on groups



House of Quality

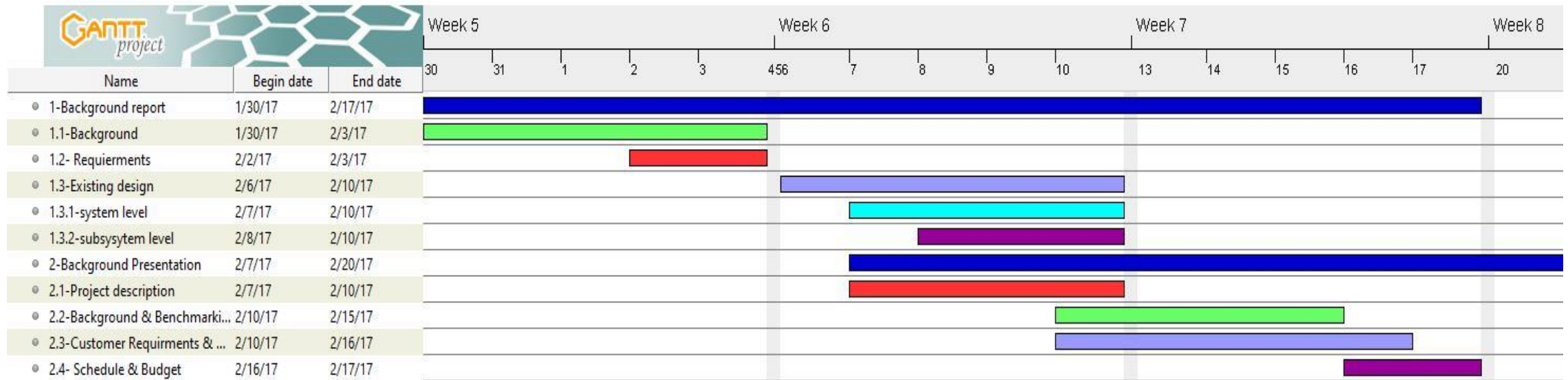
House of Quality (HoQ)	
Customer Requirement	Weight
1. more acutal work in solid work	6
2. 3-D sketches	7
3. quizzes	4
4. TA secions	7
5. work in groups	8
6. work more on totorials	9
7. take examples from real life	8
8. theme	8
Approval (print name, sign, and date):	
Team member 1: Muhammad Alhajri	02/13/17
Team member 2: Naser Alhajri	02/13/17
Team member 3: Yousef Alhaddad	02/13/17
Team member 4: Mohammad Alfadhli	02/13/17
Team member 5: Abdualziz Alajmi	02/13/17

Budget [7,8]

- ▶ **Cost:**
 - ▶ Basic Engineering Drafting Kit/ cost (\$48.92)
 - ▶ 3D printer/ cost(depents on weight)
- ▶ **Time:**
 - ▶ 5 Hours per week



Gantt chart & Scheduling



Team F	
Yousef Alhaddad	
Muhammad Alhajri	
Naser Alhajri	
Mohammad Alfadhli	
Abdulaziz Alajmi	

References

- ▶ [1] <https://nau.edu/CEFNS/Engineering/Mechanical/Faculty-Staff/Directory/Sarah-Oman/>
- ▶ [2] <http://www.logospike.com/cad-logo-234/>
- ▶ [3] <http://www.disruptivemagazine.com/news/ogle-models-add-stratasys-fortus-400mc-their-lineup>
- ▶ [4] <http://appnee.com/autodesk-2016-all-product-keys-collection/>
- ▶ [5] <http://www.cgmeetup.net/home/making-of-bb8-in-london>
- ▶ [6] <http://augusto-aldeghi.squarespace.com/blog/2016/2/11/the-requirement-illusion>
- ▶ [7] <http://www.draftingsteals.com/20467.html?gclid=ClyRxOWTm9ICFYqBfgodvh4LMQ>
- ▶ [8] <http://uk.pcmag.com/printer-reviews/36506/guide/the-best-3d-printers-of-2017>

ASK ME
ANYTHING

إسألني أي شيء ... !