

Suggested items to write in the Engin 103 logbook:

- 1) **The notes you took from the Team presentations on Part I**
- 2) **Your own experiences while working on this project and delivering the presentation today to the class.**

These notes can be used when you prepare and type the Individual reports due next week.

Project 0 –Engineering Fields
Part I

Your name _____ Instructor_____

Your team# _____

Team leader

name:_____

Team 1	Engineering Field <u>Aeronautical & Aerospace</u>
Notes:	
<ul style="list-style-type: none">✧ Design and development of aircrafts, space vehicles, missiles, weapons and related systems;✧ They apply the principle of Science and Technology to the research design.✧ Major Employer: Boeing Company, Aerospace Corporations.✧ Works with Electrical and Mechanical Engineers.✧ Research : Designing, manufacturing etc.,✧ airlines/armed forces/NASA✧ 85% of the employees are males, 15% females.✧ Salary range : 50k- 90k	
Grade: (on a scale of 1 to 4 being 4 the highest score)	
Team 2	Engineering Field <u>Biomedical engineering</u>
Notes:	
<ul style="list-style-type: none">✧ combines Biology and Medicine✧ beneficial for medical personnel, patients etc.,✧ uses magnets to identify tumors✧ works in universities, hospitals, research facilities etc.,✧ work with doctors, professors, medicine etc✧ spiral cord injury (showed a screw)✧ computer aided surgery, artificial organs✧ 30% employed in manufacturing✧ salary : 60-85k	
-showed a pedicle screw; used next speaker introduction to avoid silence gap; used automatic timing of slides.	
Grade: (on a scale of 1 to 4 being 4 the highest score)	

Every student should keep notes on these pages and give them to your leader at the end of the class for the Team Report on Project 0

Team 6	Engineering Field <u>Electrical Engineering</u>
Notes:	
<ul style="list-style-type: none"> ⌘ Studies the use of electricity and equipment for power generation and distribution and the control of machine communications. ⌘ Thomas Edison (Bulb) ⌘ Many scientists have contributed from radio to radio technology in the 20th century. ⌘ Design new and improved electronics , robots, planes, computers etc., ⌘ microprocessors, etc 	
-Talked about I-pods/cellphones	
Grade: (on a scale of 1 to 4 being 4 the highest score)	
Team 7	Engineering Field: <u>Geophysical/Geological Engineering</u>
Notes:	
<ul style="list-style-type: none"> ⌘ the subsurface characterization of the area beneath the Earth's surface based on the lateral and vertical mapping ⌘ Problems it helps solve: Infrastructure, geohazards, archaeological etc... ⌘ Benefits: non destructive with equipments, efficiency, cost effectiveness, comprehensiveness. ⌘ Above ground/under water/ under ground activities 	
-Used flash cards, showed credits/references, mentioned 'high demand of land' issue	
Grade: (on a scale of 1 to 4 being 4 the highest score)	
Team 8	Engineering Field <u>Industrial and manufacturing engineering</u>
Notes:	
<ul style="list-style-type: none"> ⌘ qualities : math, time management, organization, communication, creativity, problem solving ⌘ Concerns the development, improvement, implementation and evaluation of integrated systems, knowledge equipment etc... ⌘ analyze the operations of manufacturing ⌘ It's a continuous cycle. 	
- Mentioned 'how to make a toy car cheaper'	
Grade: (on a scale of 1 to 4 being 4 the highest score)	

Team 10

Engineering Field Mechanical engineering

Notes:

- ⊗ elevator, train, vacuum cleaner, refrigerators etc
- ⊗ They work in manufacturing, transportation etc.
- ⊗ they keep motors running
- ⊗ Mechanics, kinematics, structural failure analysis, thermodynamics, drafting, fluid dynamics.

-Showed nice pictures related to drafting

Grade: (on a scale of 1 to 4 being 4 the highest score)