

EE 497 Class Project Statement

For one medical device of your choice (and approved by the course instructor), please do the following:

- a. Describe briefly the theory of operation in English. *(1-2 pages – 10%)*
- b. Describe its utilization and operation in clinical use (i.e., how the healthcare personnel use it). *(1-2 pages – 10%)*
- c. Provide the block diagram of a practical design of the chosen device and describe the functions of main blocks and their technical design specifications. *(3-4 pages – 20%)*
- d. Provide practical alternatives and sources for the design of each of the main blocks in the design that meet their required technical specifications. *(4-8 pages – 40%)*
- e. Provide an assessment of how human factors engineering principles can be taken into account in the design of the chosen device. *(1-2 pages – 10%)*
- f. Describe how sterilization can be assured in the design and use of the chosen device. *(1-2 pages – 10%)*

Important Notes

1. It is required to submit your project report and presentation by May 1, 2015. Presentations will be scheduled shortly after this date.
2. The project evaluation will amount to 20% of your term grade.
3. You are required to submit the project in electronic format only (i.e., by electronic mail to instructor – no hardcopies will be needed or accepted). The project output should include a report in PDF format and a one-hour presentation for each group. No additions or modifications to the report or the presentation will be allowed after the deadline.
4. You must use your own words in the report with clear reference citation. “Copy-Paste” items without references will not be accepted and will be considered as plagiarism. Plagiarism/cheating is a major ethical violation that may result in a failing grade for the offending project group. Please refer to this [web site](#) for more information on plagiarism.