Assignment: Sr Project Proposal—Solution section

Instructions for Individual Project
Write a 1.5 to 2-page proposed solution section for your senior project. (Total proposal length, excluding Gantt chart and budget is not to exceed three pages.)

Instructions for Team Project
Write a 0 to 1.5-page proposed solution section for the team project in its entirety. In addition, each member of the team will write a 1.5 to 2-page proposed solution section for their part of the larger project. Although each student should write the first draft of their proposed solution section, the team should edit the entire proposed solution to achieve consistency and high quality. (Total proposed solution length for the team, is not to exceed 1.5 pages plus two pages times the number of people on the team.)

Characteristics of an Effective Proposal
The solution section corresponds to the "Proposed Solution" and "Substantiation" sections of the Proposal Outline, below. The following characteristics must be present in your project description:

1) Specificity, (convey as much information as possible with every word)
2) Certainty, (choose a solution and present it confidently)
3) Clarity, (make the reader understand your descriptions)
4) Thoughtfulness, (anticipate problems and present contingency plans)
5) Completeness, (include all supporting information, including time line, schematics, budget, and etc.)
6) Realism, (choose a solution that fits the time and resources available)

Required Content
You must meet the follow requirements in order to receive credit for your work:
1) You must use the IEEE Format modified for single column, double spaced template file for this assignment.
2) You must be specific about what your project is.
3) You must address the items in the proposal outline, below.
Proposal Outline (Partial version, adapted from Proposal Outline by John S. Harris, BYU)

III. Proposed Solution
   A. Rationale of proposed solution
   B. Method and procedure of proposed solution
      1. Hardware diagrams (as appropriate)
      2. Software diagrams (as needed)
   C. Expected results (performance specs of final system)
   D. Means of verifying results (e.g., test/checkout procedure)
   E. Contingency plans (for risky steps in project)

IV. Substantiation
   A. Facilities (if applicable)
      1. Where project will be housed
      2. Who will administer project
   B. Hardware
      1. Needed
      2. on hand
   C. Software (if applicable)
      1. Needed
      2. on hand
   D. Personnel (as needed)
   E. Costs
      1. Time line (summarize time line in words)
      2. Budget (summarize budget in words)

Grading Criteria
- Characteristics listed in instructions:
  Specificity, Certainty, Clarity, Thoughtfulness, Completeness, Realism
- Style and grammar