

Initial Proposal Outline

Title Page

- Title of the proposal
- Name
- Affiliation
- Date
- Everything centered

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The length of the initial proposal is between 4 and 6 pages, excluding the title page, with single line format and 12 point font.

Summary

A half page, contains the most important information to impress the reviewers.

- What
- Why
- How

Introduction (1 – 2 pages)

- Reason for project
- Project objectives
- Brief literature review and existing designs
- Innovation and uniqueness of your design
- scope of your project

Methodology (2 – 3 pages)

- Main ideas of developing solutions

- Main Design considerations: Architecture, major components and interfaces, behavior descriptions of major components, the environments, and platforms plan to use for implementing the design.
- Design Alternatives (at least two): You need to provide two alternative designs, in addition to the main design as you described in the previous section. The alternative designs serve for the purposes of comparison and as backup plans if the main plan does not work for any reason.
 - Briefly address the points that you discussed in the main design consideration
 - Frameworks and environments to be used if those in the main design do not work.

Deliverable Consideration, for example

- Software
- Hardware
- System
- Publication
- Reusable design

Schedule

- Plan
- Explain the milestones

References

- There must be at least five references that are not documents from this class, such as Internet sites, books, papers, etc.
- The textbooks that you used in the related courses should be listed.
- If distributed and service-oriented architecture is used, CSE445/598 and CSE446/598 textbook should be referenced: Yinong Chen, Service-Oriented Computing and System Integration: Software, IoT, Big Data, and AI as Services, 6th edition, Kendall Hunt Publishing, 2018.