

Full Proposal Outline

Title Page

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

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The length of the full proposal is between 17 and 20 pages, excluding the title page and the appendices, with single line format and 12 point font.

The proposal must convince the reviewers (readers) that project is important, innovative, feasible, based on the research at the time the proposal is written. The preparation work so far should be approximately 50% of the entire workload required to complete the work described in the proposal. The proposal must be organized in the following sections.

Executive Summary (1 page)

One page, contains the most important information to impress the reviewers.

- What
- Why
- How
 - Intellectual Merit
 - Broader Impact

Introduction (2 pages)

- Reason for project
- Project objectives

- Innovation and uniqueness of your design
- scope of your project
- Impact
- Organization of the rest of the proposal

Literature Review and Related Work (2 pages)

- What work has been done in the project area
- Existing designs
- What are your contributions in contrast to the existing designs

Methodology and Design (6 - 8 pages)

- Main ideas of developing solutions
- Design Alternatives (at least two, one is the main design to use and one is used for comparison purpose or backup)
 - Concepts used
 - Models and Model Parameters
 - Detail of the innovation
 - Anticipated advantages
 - Potential problems and risk
- What have been completed so far based on your alternative designs
 - Show the detail of your final design, including design diagrams, implementation consideration, initial test results, etc.
 - Estimate the amount of effort spent in the work completed and the work to be completed.

Deliverables (1 page)

- Software
- Hardware
- System
- Publication
- Reusable design

Project Planning, Schedule and Management (2 pages)

- Gantt Chart made at the proposal time
- Explain the milestones
- Indicate the work that has been completed and the amount of effort to complete the remaining work.

Budget and Justification (1 page)

- Personal cost
- Equipment
- Supply
- ...
- Elaborate why and how for each major item in the budget table
- Provide quotation for major devices to be purposed

References

- There must be at least 10 references that are not documents from this class, such as Internet sites, books, papers, etc.
- Combination of books, journal/conference publications, and Web sites.
- 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.

Appendices

- Two-page CV
- Supporting documents, such as sample code developed to show the work that have been completed.