CET/CSC 490 Design Document Details/Format 1

Due: Sunday December 11, 2022 11:59pm (Electronic to D2L Dropbox)

Length: At least 30 pages excluding title and evaluation pages, shared among team members · be sensible about diagrams!

Tips:

- previews & guestions are encouraged
- make sure each team member thoroughly checks & verifies all produced artifacts
- CETs must demonstrate that project will apply both hardware and software design

- single-sided, double-spaced, 1" margin all sides
- Times Roman, 12 point
- figures labeled and referenced
- pages numbered and referenced in table of contents
- include references page as appropriate

Content:

Title Page Blank page titled "Instructor Comments/Evaluation" Table of Contents (detailed) Abstract (1 paragraph brief description of project and role of this document) Description of the Document Purpose and Use (of the document) Ties to the Specification document Intended Audience (who will read the document) Project Block Diagram with description (Fig 14.3) **Design Details** System Modules and responsibilities Architectural Diagram (Fig 14.5-14.6) Module Cohesion (for each) Module Coupling (for each) Design Analysis (Ch. 14.3 & 14.4) Data Flow or Transaction Analysis Design Organization (Object Oriented Design) Detailed tabular description of Classes/Objects (Appendix G) description data members / types / constraints member function listing / description Functional description (Fig. 14.12, 14.16, 14.17) input/output/return parameters / types modules used files accessed real-time requirements messages narrative / PDL

Decision: Programming language/Reuse/Portability (Ch.14.9) Implementation Timeline (i.e., Software Engineering Management Plan)

Design Testing (Ch. 14.10)

Appendix (optional): Schematic & Bill of Materials (BOM)

Appendix: Team Details

(workflow leader clearly documented and description of each team members' specific contributions)

Appendix: Writing Center report

Appendix: Workflow Authentication (individual signatures for each design workflow component)

References

¹Borrowed from Professor Sumey