Suggested Senior Design Proposal Structure
ECE 4810 Electrical/Computer Senior Design I
Version 2 October 2017

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1. Project Overview
   1.1. Background and Description
   1.2. Need Statement
2. Project Specifications
   2.1. Physical Characteristics
   2.2. Functionality
   2.3. Applicable Standards
   2.4. Constraints
      2.4.1. Economic
      2.4.2. Health and Safety (required)
      2.4.3. Environmental and Sustainability
      2.4.4. Ethical
      2.4.5. Social
      2.4.6. Manufacturability
      2.4.7. Political
   2.5. Other
3. Project Feasibility
   3.1. Physical
   3.2. Economic
   3.3. Resources
4. Design
   4.1. Patent Search
   4.2. Concept
   4.3. Alternative Approaches
   4.4. Detailed Design
      4.4.1. Precedence Matrix
      4.4.2. Hardware Components
      4.4.3. Software Components
      4.4.4. Other Design Elements
5. Design Validation
   5.1. Models and Simulations
   5.2. Testing Procedures
6. Plan of Work
   6.1.1. Work Flow Diagram
   6.1.2. Critical Path Network
7. Project Deliverables
8. Additional Considerations
9. Conclusions
10. References