1. Abstract [200-300 words]
2. Report Revision History
   1. Changes in Version 1.5
   2. Changes in Version 2.0
   3. Changes in Version 2.5
   4. Changes in Version 3.0
   5. Changes in Version 3.5
   6. Changes in Version 4.0
   7. Changes in Version 5.0
3. Problem Statement
   1. Business Background
   2. Needs [why]
   3. Objectives [what]
4. Requirements
   1. User Requirement
      * **Glossary of Relevant Domain Terminology**
      * **User Groups**
      * **Functional Requirements**
        1. **Project Scope [Use Case Diagram]**
        2. **User Scenarios [Use Case Descriptions]**
        3. **List of User Functional Requirements**
      * **Non-functional Requirements**
        1. **Product: Usability Requirements**
        2. **Product: Performance Requirements**
        3. **Product: Dependability/Reliability/Security**
        4. **Organizational: Development Requirements**
        5. **Organizational: Operational Requirements**
        6. **Organizational: Environmental Requirements**
        7. **External: Law Enforcement on Safety/Security**
        8. **External: Cultural and Social Requirements**
        9. **External: Political Requirements**
   2. System Requirements
      * **Functional Requirements**
        1. **List of System Functional Requirements**
        2. **System Behavior [UML Sequence Diagrams]**
        3. **Data Requirements**
      * **Non-functional Requirements**
        1. **Product: Usability Requirements**
        2. **Product: Performance Requirements**
        3. **Product: Dependability/Reliability/Security**
        4. **Organizational: Development Requirements**
        5. **Organizational: Operational Requirements**
        6. **Organizational: Environmental Requirements**
        7. **External: Law Enforcement on Safety/Security**
        8. **External: Cultural and Social Requirements**
        9. **External: Political Requirements**
   3. Requirements Trace Table
5. Exploratory Studies
   1. Relevant Techniques[commonly used techniques as related to your project]
   2. Relevant Packages/Products[those with support of features desired in your project]
   3. Broader Impacts[who else may benefit from the project except for the sponsor]
6. System Design
   1. Architectural Design
   2. Structural Design
   3. User Interface Design
   4. Behavioral Design
   5. Design Alternatives & Decision Rationale
7. System Implementation
   1. Programming Languages & Tools
   2. Coding Conventions
   3. Code Version Control
   4. Implementation Alternatives & Decision Rationale
   5. Analysis of Key Algorithms
      * [Pick one or two algorithms implemented in your project that best represent your competence.]
      * [Algorithms included here have to be your own design, but could be innovative integration of well-known or referrenced ones]
      * [Provide psudocode, followed by time- and/or space- analysis]
8. System Testing
   1. Test Automation Framework
      * **Steps for Installing Test Framework**
      * **Steps for Running Test Cases**
   2. Test Case Design
      * **Acceptance Test Cases**
      * **System Test Cases**
      * **Integration Test Cases**
      * **Unit Test Cases**
   3. Test Case Execution Report
      * **Unit Testing Report**
      * **Integration Testing Report**
      * **System Testing Report**
      * **Acceptance Testing Report**
9. Challenges & Open Issues
   1. Challenges Faced in Requirements Engineering
      * [Availability of industry mentor]
      * [Understanding the problem domain]
   2. Challenges Faced in System Development
      * [What new techniques you need to learn]
      * [Do you have sufficient tool support]
      * [Any difficulties in agile practices]
   3. Open Issues & Ideas for Solutions
10. System Manuals
    1. Instructions for System Development
       * **How to set up development environment**
       * **Notes on system further extension**
    2. Instructions for System Deployment
       * **Platform Requirements**
       * **System Installation**
    3. Instructions for System End Users
11. Conclusion
    1. Achievement
    2. Lessons Learned
    3. Acknowledgment
       * [Who financially supported your college study]
       * [Who sponsored your capstone project]
       * [Who helped/encouraged you to achieve college success]
12. References