## A. Product Engineering

- 1. Requirements
  - a. Stability
  - b. Completeness
  - c. Clarity
  - d. Validity
  - e. Feasibility
  - f. Precedent
  - g. Scale
- 2. Design
  - a. Functionality
  - b. Difficulty
  - c. Interfaces
  - d. Performance
  - e. Testability
  - f. Hardware Constraints
  - g. Non-Developmental Software
- 3. Code and Unit Test
  - a. Feasibility
  - b. Testing
  - c. Coding/Implementation
- 4. Integration and Test
  - a. Environment
  - b. Product
  - c. System
- 5. Engineering Specialties
  - a. Maintainability
  - b. Reliability
  - c. Safety
  - d. Security
  - e. Human Factors
  - f. Specifications

## B. Development Environment

- 1. Development Process
  - a. Formality
  - b. Suitability
  - c. Process Control
  - d. Familiarity
  - e. Product Control
- 2. Development System
  - a. Capacity
  - b. Suitability
  - c. Usability
  - d. Familiarity
  - e. Reliability
  - f. System Support
  - g. Deliverability
- 3. Management Process
  - a. Planning
  - b. Project Organization
  - c. Management Experience
  - d. Program Interfaces
- 4. Management Methods
  - a. Monitoring
  - b. Personnel Management
  - c. Quality Assurance
  - d. Configuration Management
- 5. Work Environment
  - a. Quality Attitude
  - b. Cooperation
  - c. Communication
  - d. Morale

# C. Program Constraints

- 1. Resources
  - a. Schedule
  - b. Staff
  - c. Budget
  - d. Facilities

#### 2. Contract

- a. Type of Contract
- b. Restrictions
- c. Dependencies

## 3. Program Interfaces

- a. Customer
- b. Associate Contractors
- c. Subcontractors
- d. Prime Contractor
- e. Corporate Management
- f. Vendors
- a. Politics

Figure A-1 Taxonomy of Software Development Risks

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