

# PURDUE

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# FORT WAYNE\*

## Systems Engineering Project Template

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SE5XX  
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**Table 1.** Document Revision History

<b>Revision</b>	<b>Date</b>	<b>Reason for Revision Change(s)</b>
Number	Date	Add explanation

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### 1 Abstract

### 2 Introduction

### 3 Literature Review

This section should includes information related to:

- What others are doing in this field
- ERP Software background and uses
- Applicable DoD Regulations

## **4 Problem Statement**

State what the project is about and the difficulties that may be involved.

### **4.1 Customer(s)**

Customers can be both internal and external to the system, and it is important to meet the needs of both types. Refer to the System Design Language Primer for more information.

#### **4.1.1 Types of Customers**

#### **4.1.2 Customer Needs**

### **4.2 Use Case(s) or Scenario(s)**

Explain the function of the product and enterprise from a viewpoint of a customer. What functions must the product and enterprise achieve in order to satisfy the needs of the various customers? Defining use cases comes prior to establishing the system boundary because it may help understand the scope of the project.

### **4.3 System Boundary**

The system boundary is usually expressed with a System Boundary Diagram. Please see the System Design Language Primer for more information.

### **4.4 Interfaces and Interface Risks**

## **5 Product Design Description**

Describe your team's product and be sure to explain the differences between the commercial product and the Defense-related product, if applicable.

## **6 Manufacturing System Design**

### **6.1 Translation of Customer Needs (CNs) to Candidate Functional Requirements (FRs)**

### **6.2 Manufacturing System Design Decomposition/Map**

### **6.3 Value Streams**

#### **6.3.1 Description of Value Streams/Major Process Steps**

Please define the FRs and PSs of your manufacturing system.

#### **6.3.2 Part Family Definition and Overall Linked-Cell Layout for the Value Stream**

#### **6.3.3 Value Stream Map**

The Value Stream Map should show the material and information flow relationship as well as how the cell cycle time is balanced to takt time.

## **7 Company Structure**

### **7.1 Systems Engineering Management Plan (SEMP)**

### **7.2 DCAA Audit Compliance**

Please include your answers to the SF1408 Form in this section.

## **7.3 ERP Software**

### **7.3.1 Use Case Description**

### **7.3.2 ERP Software Specification Requirements**

## **7.4 Work Breakdown Structure (WBS)**

## **7.5 Integrated Master Schedule**

## **7.6 Chart of Accounts**

## **7.7 Budget**

# **8 Pre-Meeting: DCAA Preparation Materials**

Include any material that your team has created in preparation for the DCAA Meeting 1. This pre-meeting 1 is used for review and to allow your team to get any questions answered prior to the first presentation.

# **9 DCAA: Meeting 1**

Include the content and description for the DCAA Meeting 1.

# **10 ERP Software: Meeting 2**

Include the content and description for the ERP Software Meeting 2.

# **11 Board of Directors: Meeting 3**

Include the content and description for the Board of Directors Meeting 3.

**12 Conclusions**

**13 Lessons Learned**

**14 References**