Project Flow - Documentation

- I. Customer
 - A. Customer Needs
- II. System Designer
 - A. Looks at the customers needs and designs a system
 - 1. Defines the interfaces the system and the outside world
 - 2. Defines the components (H/W, S/W)
 - 3. Defines the interfaces between components
 - B. From Customer Needs, develops High Level System Requirements (Specifications)

Project Flow - Documentation

III. Developers (H/W, S/W, Integrators, Testers)

- A. From the High Level Specs, the H/W and S/W developers write detailed specs (architectures):
 - 1. On how each component will operate (Design Specs)
 - 2. On how each component will interface and integrate with the outside world (Integration Specs)
 - 3. On how each component is to be manufactured and (quality) tested (Manufacture Specs)
- B. From the High Level Specs and the Design and Integration specs, the integrators and testers write test specs to:
 - 1. Insure each component meets their respective developer spec (Design Verification Test Spec)
 - 2. Insure each component meets their interface and integrate (Integration Test Spec)
 - 3. Insure that the components in aggregate operate as a system and meet the High Level System Requirements and customer need (System Test Spec)

Project Flow - Documentation

- IV. Manufacturers
 - A. From the Design and Manufacture Specs, production specs are written to
 - 1. Insure that the components are produced according to requirements
 - 2. Insure that the quality of the components are maintained throughout manufacture
- V. Customer (User) Documentation

Project Flow - Implementation

- I. Developers (H/W, S/W)
 - A. Design prototypes from Specs
- II. Testers (Integrators, Testers)
 - A. Test prototypes
- III. Developers (H/W, S/W)
 - A. Work with manufacturer to develop a factory model
- IV. Manufacturers

A. Build factory model

- V. Testers (Integrators, Testers)
 - A. Test factory models separately
- **VI. Integration and System Testers**
 - A. Test components (factory models) in a system configuration
- **VII. Customer Acceptance Testing**
 - A. System Test is performed with customer to obtain customer approval

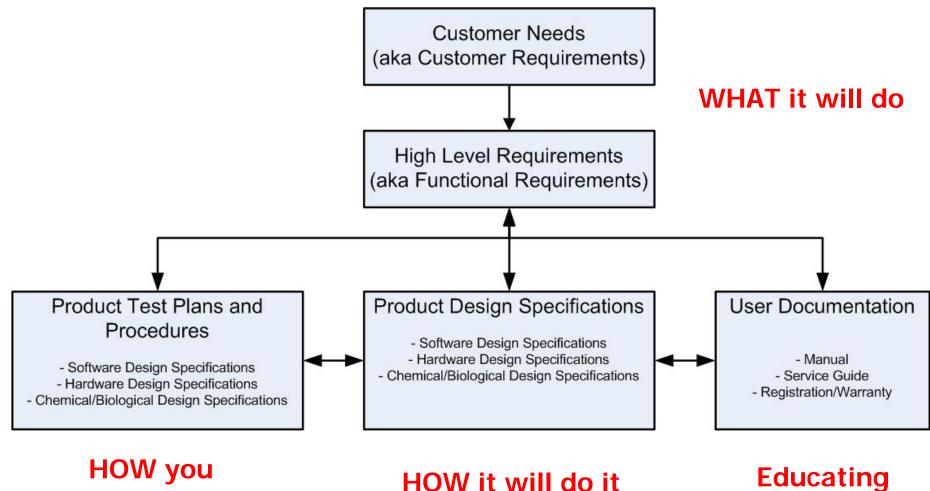
VIII.Developers and Manufacturers (and Customers)

- A. Ongoing Quality Inspections
- IX. Customer Documentation

Your Project – Questions to be answered

- Who is your customer?
- What are the customer needs?
- Who are your System Engineers?
- Who are your Developers and Testers?
- Is your project worthy for manufacture?
- What specs do you require?
- How do you expect to test your project?
- How are you going to assure the customer needs are meet?

Engineering Documents



the End User

will prove it works!

