

Revisión de Diseño Baja Alumnos

01/05/17

0.1

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**Control De Versiones**

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# Revisión diseño

**PSP2 Design Review Checklist**

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| Student | JAGB | Date | 01/05/17 |
| Program | Baja Alumnos | Program # | N/A |
| Instructor | PEBM | Language | C++ |

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| Purpose | To guide you in conducting an effective design review |
| General | - Review the entire program for each checklist category; do not attempt to review for more than one category at a time!  - As you complete each review step, check off that item in the box at the right.  - Complete the checklist for one program or program unit before reviewing the next. |

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| Complete | Verify that the design covers all of the applicable requirements.  - All specified outputs are produced.  - All needed inputs are furnished.  - All required includes are stated. | MB  X | B    X  X | R | M |
| External Limits | Where the design assumes or relies upon external limits, determine if behavior is correct at nominal values, at limits, and beyond limits. |  |  |  |  |
| Logic | - Verify that program sequencing is proper.  Stacks, lists, and so on are in the proper order.  Recursion unwinds properly.  - Verify that all loops are properly initiated, incremented, and terminated.  - Examine each conditional statement and verify all cases. | X        X | X |  |  |
| Internal Limits | Where the design assumes or relies upon internal limits, determine if behavior is correct at nominal values, at limits, and beyond limits. |  |  |  |  |
| Special Cases | - Check all special cases.  - Ensure proper operation with empty, full, minimum, maximum, negative, and zero values for all variables.  - Protect against out-of-limits, overflow, and underflow conditions.  - Ensure “impossible” conditions are absolutely impossible.  - Handle all possible incorrect or error conditions. | X  X    X  X  X |  |  |  |
| Functional Use | - Verify that all functions, procedures, or methods are fully understood and properly used.  - Verify that all externally referenced abstractions are precisely defined. | X    X |  |  |  |
| System Considerations | - Verify that the program does not cause system limits to be exceeded.  - Verify that all security-sensitive data are from trusted sources.  - Verify that all safety conditions conform to the safety specifications. | X    X    X |  |  |  |
| Names | Verify that  - all special names are clear, defined, and authenticated  - the scopes of all variables and parameters are self-evident or defined  - all named items are used within their declared scopes | X  X  X |  |  |  |
| Standards | Ensure that the design conforms to all applicable design standards. | X |  |  |  |