

Software Engineering and Software Quality Assurance

Sunhillo's software process improvement program is modeled after the Software Engineering Institute's Capability Maturity Model. To assure the quality, efficiency, reliability, and maintainability of its products, Sunhillo uses an engineering methodology for software development that incorporates detailed cost and schedule management and a comprehensive quality assurance program.

Sunhillo's Organizational Standard Software Process (OSSP) incorporates software policies, process standards, and product standards to satisfy the highest industry standards.

This provides:

- Validated processes that match the mission-critical need.
- Faster, more accurate, repeatable processes which reveal bottlenecks and engineering challenges and identify cost savings and efficiencies.
- A lower-risk, more-predictable development environment.



Sunhillo complies and performs at SEI CMMI Level 3 standards. The company's OSSP process elements are grouped into four basic categories or areas:

- Process Management
- Project Management
- Support
- Engineering

Installation/Hardware/Test and Evaluation/Certification

Today's net-centric systems require seamless integration of hardware and software engineering, system support engineering and program management staff. In turn, this requires a customer-centric focus to determine evolving needs:

- Generating the highest level of hardware requirements, based on user needs, as well as cost and scheduling constraints.
- Ensuring consistent, complete, correct, and operationally defined requirements.
- Performing cost-benefit analyses to determine the best methods or approaches for meeting the hardware requirements, including use of commercial, off-the-shelf or previously-developed components.
- Partitioning large hardware systems into subsystems and components each of which can be handled by a single hardware engineer or team of engineers.
- Ensuring development of a robust, secure and optimally-designed hardware architecture.
- Generating acceptance test requirements, together with integration and test specialists and system support engineers, and the user, to determine that all of the high level hardware requirements have been met.

