

Rock Solid Technologies, Inc.
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Vice President

Rock Solid
technologies

Software
Engineering
in Puerto
Rico 

Rock Solid Technologies
www.rocksolid.com

- Software development and implementation firm
- About 40 Colegiales
- Offices
 - San Juan, Caguas R&D Center
 - Austin, TX
 - St. Michael, Barbados
- World-wide Award – Microsoft 2010 & 2011

Rock Solid
technologies

Microsoft
GOLD CERTIFIED
Partner

What is software?

- Programs
- Documentation
- Manuals
- Help files
- Licenses



Software engineering definition

- ... is concerned with software systems which are built by teams rather than individual programmers, uses engineering principles in the development of these systems, and is made up of both technical and non-technical aspects...

Trade-offs Triangle



Tradeoff Matrix

	Fixed	Chosen	Adjustable
Resources	✓		
Schedule		✓	
Features			✓

What is software engineering – my version?

- Marketing
- Proposals
- Economic Analysis
 - ROI
 - TCO
- Sales
- Legal – Contracts
- Licensing
- Requirement Definition
- Prototype
- Risk Management



- Design
- Coding
- Testing
- More testing
- Training
- Implement
- On-site Support
- Help Desk
- Maintenance
- Enhancements
- Re-negotiate



Well engineered software

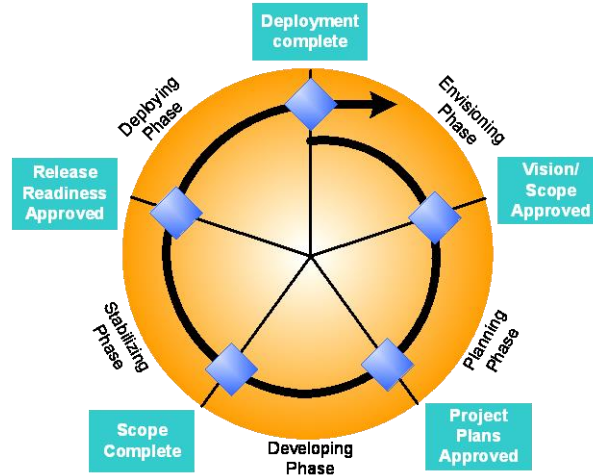
- Functional
- Maintainable
- Reliable
- Efficient
- Appropriate user interface
 - User-friendly
 - Expert-friendly

Software Models

- Waterfall model
- Iterative waterfall model
- Prototyping
 - Works well for us in government
- Others



MSF Process Model



Software Engineering here?



Or here?



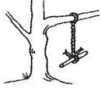
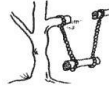
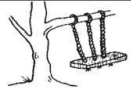
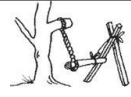
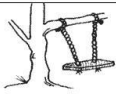
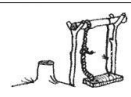
I prefer here!



Puerto Rico Software Development Map

- Multiple local companies doing Software Development
 - Rock Solid – government and private sector
 - Softek, Invid
 - CRG, Infotech, Evertec, Nagnoi
 - USA based aerospace companies – Axon, Infotech, Honeywell
 - Your Company – Become an entrepreneur!
- Multinationals
 - SAP
 - ORACLE
 - Microsoft
- Others
 - Insurance
 - Banking

The key to good Software Engineering – Knowing what the customer wants!

	
What the user asked for	How the analyst saw it
	
How the system was designed	As the programmer wrote it
	
What the user really wanted	How it actually works

How to improve your chances?

- Learn to write
 - Not just software code
 - Spanish and English
- Learn to listen
- Learn to speak
- Networking: Student and Business Orgs
- Focus on learning the business
- Become a well rounded professional
- Give back to your community, \$chool, etc.



Q&A

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