Software Engineering in Puerto Rico

Rock Solid Technologies, Inc.

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Rock Solid technologies

Rock Solid Technologies
www.rocksolid.com

- Software development and implementation firm
- About 30 Colegiales
- Offices
  - San Juan
  - Austin, TX
  - St. Michael, Barbados

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

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
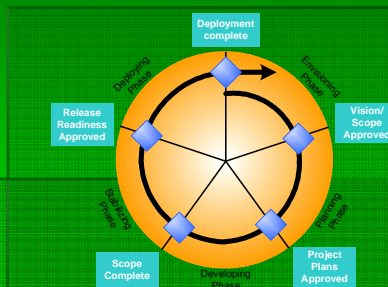- Re-negotiate

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

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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