Software Engineering in Puerto Rico

Rock Solid Technologies, Inc.
Eng. Ángel L. Pérez
VP & General Manager

Rock Solid Technologies
www.rocksolid.com

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

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

Resources
- Task
- Teams

Schedule
- Task
- Teams

Features
- Task
- Teams
What is software engineering – my version?

- Marketing
- Proposals
- Economic Analysis
- 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!

- 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, School, etc.
Q&A

- Contact Info
  Angel L. Pérez
  aperez@rocksolid.com
  787-447-6090