



Seven Habits of Highly Effective Architects

Inspired by Stephen R. Covey

How to grow to an independent and interdependent visionary architect




“Balance is the Challenge”

Ger Schoeber


May 19th, 2011





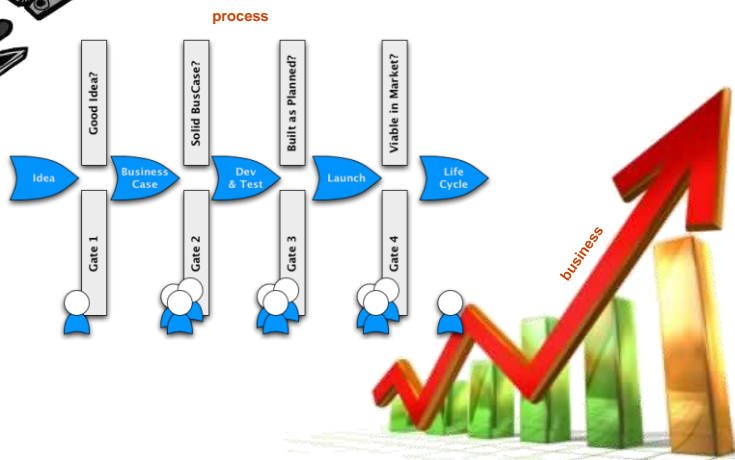
introduction

Architecting Job



techy stuff

process



Good Idea? (Idea)

Solid BusCase? (Business Case)

Built as Planned? (Dev & Test)

Vriable in Market? (Launch)

Life Cycle


Gate 1

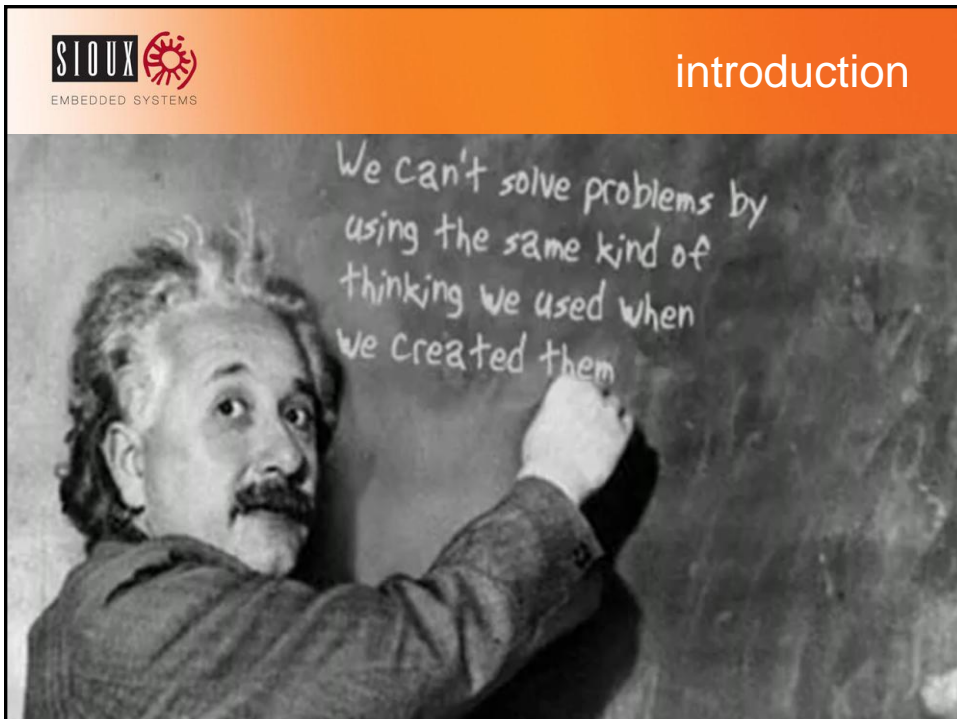
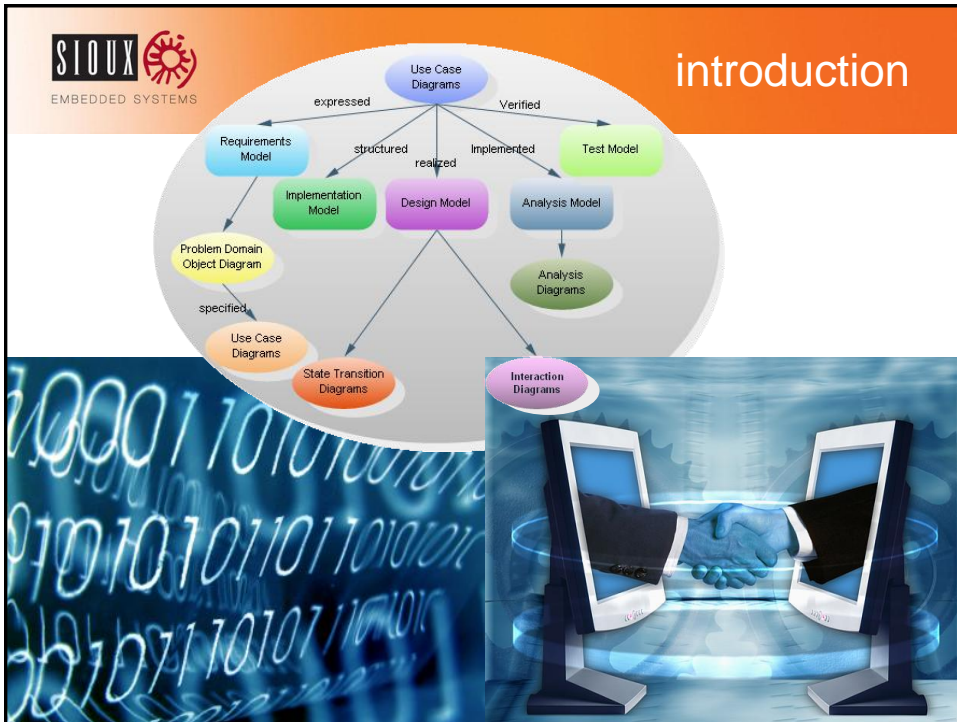
Gate 2

Gate 3

Gate 4

business





SIoux EMBEDDED SYSTEMS

7 Habits, Steven Covey

The Independent Architect

1. Is Proactive
2. Begins with the End in Mind
3. Puts First Things First

The Interdependent Architect

4. Thinks Win-Win
5. Seeks First to Understand, then to be Understood
6. Synergizes

The Self-Rejuvenating Architect

7. Sharpens the Saw

SATURN 2011

SIoux EMBEDDED SYSTEMS

From Dependence to Independence

The Independent Architect

1. Is Proactive
2. Begins with the End in Mind
3. Puts First Things First

The Interdependent Architect

4. Thinks Win-Win
5. Seeks First to Understand, then to be Understood
6. Synergizes

The Self-Rejuvenating Architect

7. Sharpens the Saw

SIoux EMBEDDED SYSTEMS

1 – The Proactive Architect

The Interdependent Architect
 4. Thinks Win-Win
 5. Seeks First to Understand, Then to be Understood
 6. Collaborates

The Independent Architect
 1. Is Obnoxious
 2. Begins with the End in Mind
 3. Plans First Things First

The Self-Respecting Architect
 7. Understands the Game

RESPONSIBILITY: THE ABILITY TO CHOOSE YOUR RESPONSE.

SATURN 2011

SIoux EMBEDDED SYSTEMS

1 – The Proactive Architect

The Interdependent Architect
 4. Thinks Win-Win
 5. Seeks First to Understand, Then to be Understood
 6. Collaborates

The Independent Architect
 1. Is Obnoxious
 2. Begins with the End in Mind
 3. Plans First Things First

The Self-Respecting Architect
 7. Understands the Game


Circle of Concern

No Concern

Circle of Concern

Circle of Influence

SATURN 2011



EMBEDDED SYSTEMS

1 – The Proactive Architect

The Self-Organizing Architect

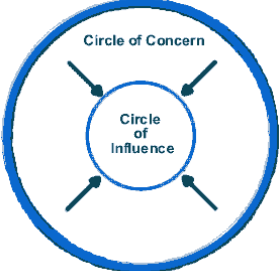
1. Inflexible
2. Begins with the End in Mind
3. Plans First Things First

The Self-Organizing Architect

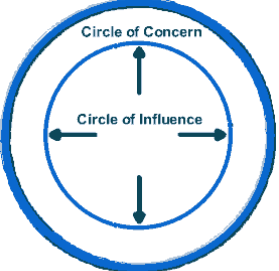
4. Thinks like a fly
5. Seeks First to Understand, Works to be Understood
6. Organizes

The Self-Organizing Architect


7. Observes the Sun



Reactive Focus



Proactive Focus





EMBEDDED SYSTEMS

2 – The Architect with the End in Mind

The Self-Organizing Architect

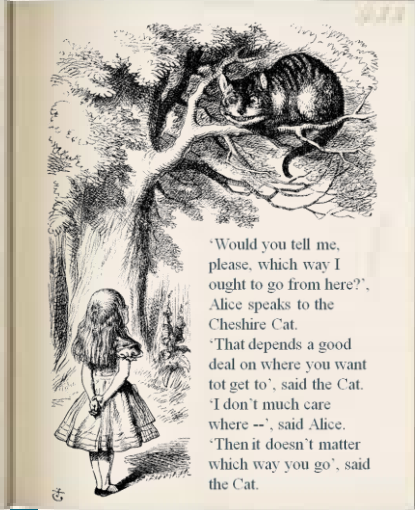
1. Inflexible
2. Begins with the End in Mind
3. Plans First Things First

The Self-Organizing Architect


4. Thinks like a fly
5. Seeks First to Understand, Works to be Understood
6. Organizes

The Self-Organizing Architect


7. Observes the Sun




“Would you tell me, please, which way I ought to go from here?”. Alice speaks to the Cheshire Cat. “That depends a good deal on where you want to get to”, said the Cat. “I don’t much care where --”, said Alice. “Then it doesn’t matter which way you go”, said the Cat.



Plan A





2 – The Architect with the End in Mind

The Independent Architect

1. In Speculation
2. Begins with the End in Mind
3. Plans First Things First

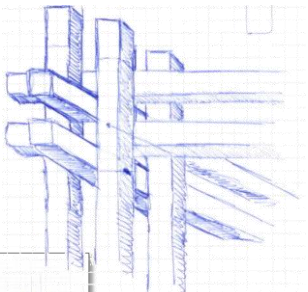
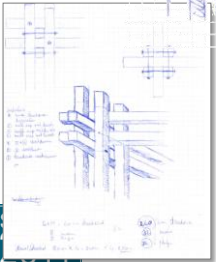
The Interdependent Architect

4. Thinks Who Why
5. Seeks First to Understand, Works to be Understood
6. Organizes



The Self-Organizing Architect


7. Observes the Sun

the mental plan

physical representation



3 – The Architect putting First Things First

The Independent Architect

1. In Speculation
2. Begins with the End in Mind
3. Plans First Things First

The Interdependent Architect

4. Thinks Who Why
5. Seeks First to Understand, Works to be Understood
6. Organizes

The Self-Organizing Architect


7. Observes the Sun

	Urgent	Not Urgent
Important	I Crisis Pressing Risks Deadline	II Prevention Relationship building New Opportunities
Not Important	III Interruptions Some calls Some e-mails Some meetings	IV Trivia Time wasters

X


daily issues
coaching
troubleshooting

architecture
vision
technical debt



Inspired by:
"What Colours is Your Backlog",
Philippe Kruchten

SATURN
2011



SIoux EMBEDDED SYSTEMS

From Dependence to Independence

The Interdependent Architect
4. Thinks When They Sleep
5. Seeks First to Understand, Works to be Understood
6. Collaborates

The Independent Architect
1. Is Pleading
2. Begins with the End in Mind
3. Plans First Things First

The Self-Respecting Architect
7. Understands the Game

SIoux EMBEDDED SYSTEMS

From Independence to Interdependence

The Interdependent Architect
4. Thinks When They Sleep
5. Seeks First to Understand, Works to be Understood
6. Collaborates

The Independent Architect
1. Is Pleading
2. Begins with the End in Mind
3. Plans First Things First

The Self-Respecting Architect
7. Understands the Game

SATURN
2011

SIoux EMBEDDED SYSTEMS

4 – The architect who thinks in Win-Win

The Interdependent Architect
 4. Thinks Win-Win
 5. Seeks First to Understand
 6. Works to be Understood
 7. Understands

The Independent Architect
 1. Is Preaching
 2. Begins with the End in Mind
 3. Pushes First Things First

The Self-Defeating Architect
 7. Understands the Goal

	Win	Lose
Win		
Lose		

SATURN 2011

SIoux EMBEDDED SYSTEMS

5 – The Architect who First seeks to Understand than to be Understood

The Interdependent Architect
 4. Thinks Win-Win
 5. Seeks First to Understand
 6. Works to be Understood
 7. Understands

The Independent Architect
 1. Is Preaching
 2. Begins with the End in Mind
 3. Pushes First Things First

The Self-Defeating Architect
 7. Understands the Goal

Stakeholder needs/concerns

- Customers
- Management
- Engineers
- Suppliers
-

Empathic Listening

Attentive Listening

Selective Listening

Pretend to Listen

Ignore

Levels of Listening

SATURN 2011


SIoux EMBEDDED SYSTEMS

6 – The Synergetic Architect

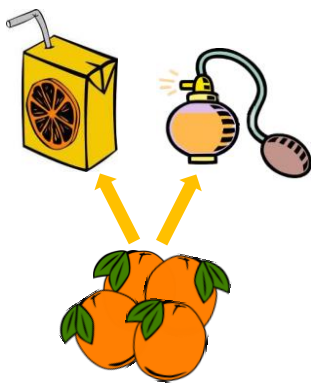
The Synergetic Architect
4. Thinks Win-Win
5. Seeks First to Understand, Then to be Understood
6. Collaborates

The Independent Architect
1. Is Phoning
2. Begins with the End in Mind
3. Plans First Things First

The Self-Rejuvenating Architect
7. Cleanses the Soul



the whole is more than the sum of the parts



SATURN 2011



SIoux EMBEDDED SYSTEMS

From Interdependence to Self-Rejuvenation

The Synergetic Architect
4. Thinks Win-Win
5. Seeks First to Understand, Then to be Understood
6. Collaborates

The Independent Architect
1. Is Phoning
2. Begins with the End in Mind
3. Plans First Things First

The Self-Rejuvenating Architect
7. Cleanses the Soul



SATURN 2011

SIoux EMBEDDED SYSTEMS

7 – The rejuvenating Architect


The Interdependent Architect
4. Trade Wins-Wins
5. Seek to be Understood
6. Synergy

The Independent Architect
1. Be Proactive
2. Design with the End in Mind
3. Prioritize Things First

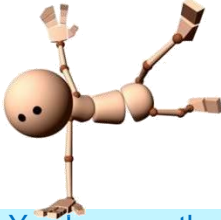
The Self-Rejuvenating Architect
7. Harmonize the Law

SATURN 2011

SIoux EMBEDDED SYSTEMS

 **Summary**

- **Independence:**
 1. Proactive – you are the ‘programmer’
 2. End goal – plan with the end in mind
 3. Priorities – Important & not Urgent
- **Interdependence:**
 4. Win-Win – Mutual benefits
 5. Empathic – Listen and Experience
 6. Synergy – Finding the 3rd alternative
- **Self-Rejuvenation**
 7. Upward spiral – Balance energy, health, lifestyle



You become the independent and interdependent visionary architect

SATURN 2011

“Proactively able to create the best system by synergistically working together in a continuous fashion”



Title	Author(s), Source
The Seven Habits of Highly Effective People	Stephen R. Covey
Alice's Adventures in Wonderland	Lewis Carrol
What colours is your backlog?	Philippe Kruchten http://pkruchten.wordpress.com/talks/
Software Architecture, Organizational Principles and Patterns	David M. Dikel, David Kane, James R. Wilson
System Architecting	Gerrit Muller http://www.gaudisite.nl/SystemArchitectureBook.pdf
Lean Software Development , An Agile Toolkit	Mary Poppendieck, Tom Poppendieck
CAFCR: A Multi-view Method for Embedded Systems Architecting	Gerrit Muller http://www.gaudisite.nl/Thesis.html
Balancing Genericity and Specificity	
Agile Manifesto	http://www.agilemanifesto.org
Scrum and XP from the Trenches, How we do Scrum	Henrik Kniberg
Agile Modeling, Effective Practices for Extreme Programming and the Unified Process	Scott W. Ambler http://www.agilemodeling.com/essays/amdd.htm
Software Architecture in Practice	Len Bass, Paul Clements, Rick Kazman
The Art of Systems Architecting	Mark W. Maier, Eberhardt Rechtin



Source of your development.



www.siox.eu



ger.schoeber@task-switch.nl



+31 6 55 70 10 63