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Niels Malotaux

Recognizing and Understanding Human Behavior to Improve Systems Engineering

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Niels Malotaux

Niels Malotaux is an independent Project Coach specializing in optimizing project performance. He has over 30 years experience in designing electronic hardware and software systems, at Delft University, in the Dutch Army, at Philips Electronics and 20 years leading his own systems design company. Since 1998 he devotes his expertise to helping projects to deliver Quality On Time: delivering what the customer needs, when he needs it, to enable customer success. To this effect, Niels developed an approach for effectively teaching Evolutionary Project Management (Evo) Methods, Requirements Engineering, and Review and Inspection techniques. Since 2001, he taught and coached some 100 projects in 25+ organizations in the Netherlands, Belgium, Germany, Ireland, India, Japan, Romania, South Africa and the US, which led to a wealth of experience in which approaches work better and which work less in practice.

Niels puts development teams on the Quality On Time track and coaches them to stay there and deliver their quality software or systems on time, without overtime, without the need for excuses. Practical methods are developed, used, taught and continually optimized for:

- Evolutionary Project Management (Evo)
- Requirements Engineering and Management
- Reviews and Inspections.

Within a few weeks of turning a development project into an Evo project, the team has control and can tell the customer when the required features will all be done, or which features will be done at a certain date. Niels enjoys greatly the moments of enlightenment experienced by his clients when they find out that they can do it, that they are really in control, for the first time in their lives.

This presentation is based on the paper "Recognizing and Understanding Human Behavior to Improve Systems Engineering": www.malotaux.nl/nrm/pdf/HumanBehavior.pdf



Recognizing and l	Understanding
Human Behavior	
to Improve	
Systems Engineering Results	
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Project Coach

- Evolutionary Project Management (Evo)
- · Requirements Engineering
- Reviews and Inspections
- Researching problems in projects
- Finding ways to fundamentally overcoming these problems

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- Ploughing back into projects
- Tuning of the results (because theory isn't practice)

Booklets: www.malotaux.nl/nrm/pdf/MxEvo.pdf www.malotaux.nl/nrm/pdf/EvoQA.pdf www.malotaux.nl/nrm/pdf/TimeLine.pdf

www.malotaux.nl/nrm/pdf/Booklet2.pdf

- www.malotaux.nl/nrm/pdf/EvoRisk.pdf
- www.malotaux.nl/nrm/pdf/HumanBehavior.pdf





Whatever can go wrong, will go wrong

Accepting fate ... ??

Murphy's Law for Engineers: Whatever can go wrong, will go wrong ...

Therefore:

We should actively check all possibilities that can go wrong and make sure that they *cannot happen*

www.malotaux.nl/nrm/pdf/Booklet2.pdf

www.malotaux.nl/nrm/pdf/EvoRisk.pdf







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- www.malotaux.nl/nrm/pdf/HumanBehavior.pdf

Communication

- Information exchanged between systems
- Traffic accident: witnesses tell their truth
- Same words, different concepts
- Human brains contain rather fuzzy concepts
- Try to explain to a colleague
- Writing it down is explaining it to paper
- If it's written it can be discussed and changed
- Vocal communication evaporates immediately





www.malotaux.nl/nrm/pdf/Booklet2.pdf

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