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Trustworthy Systems Engineering:

Methodology, Tools and electric vehicles

Who is Altreonic?

- History goes back to 1989 (**Eonic Systems**)
 - Specialised in parallel RTOS: **Virtuoso**
 - Used by ESA (e.g. Rosetta)
- Altreonic: created as new spin-off in 2008 after R&D
 - Unified systems engineering methodology
 - Focus on trustworthy scalable embedded systems
 - Formalised when possible => **OpenComRTOS Designer**
 - Portal based environment to support SE: **GoedelWorks**
 - Using it now to develop the next-gen **KURT e-vehicle**
 - **Active in European R&D projects**

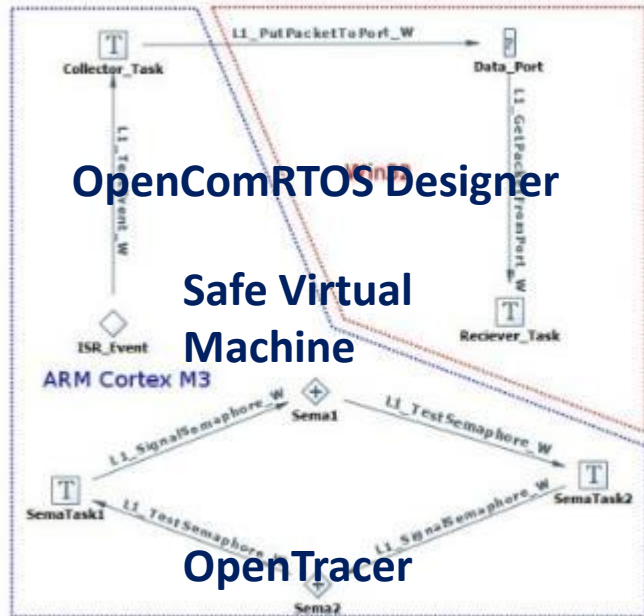
Rosetta: rendez-vous with a comet after 10 years



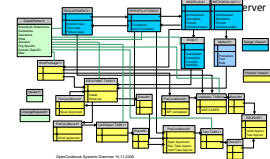
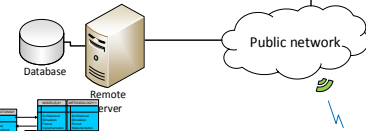
Our RTOS inside

Context scenario

Engineering data



Central Repository



3G/4G

Operational data



Positions

- Business Development Manager
- Internet developers
- Mechatronics engineer
- Embedded electronics engineer
- Embedded software engineer

- Team player, English spoken and written, open minded, ...
- Mostly in Belgium, some in Portugal

Business development manager

- International: English + ...
- Long term: create win-win situations
- Team player
- Results focused
- Know the technology domain
- Know the market

Internet developers

- Focus:
 - Contribute to GoedelWorks
 - Remote monitoring through wireless devices
 - Apps for mobile devices
- Skills:
 - Fast learner
 - Be systematic
 - Experience: JS, Python, C/C++, ...

Mechatronics engineer

- Focus:
 - KURT electric vehicle
 - Dynamic simulations, CAD, FAE, ...
- Skills:
 - Fast learner
 - Multi-disciplinary
 - “Design for” attitude
 - Think production

Embedded electronics engineer

- Focus:
 - Embedded electronics
 - Low power (MCU, FPGA, ...)
 - high power (battery, motors)
- Skills:
 - Know your domain
 - Learn fast
 - Design for reliability
 - Programming in C/asm

Embedded software engineer

- Focus:
 - OpenComRTOS Designer & VirtuosoNext RTOS
 - Low level programming: drivers
 - Extending the tools
- Skills:
 - Real-time, concurrency,
 - C/C++, formal methods, ...
 - GUI programming

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