CV/Profile Ralf Bürger

SSE

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Name	Ralf Bürger
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Born	18.Sep.1962 in Germany (nationality: German)
Languages	German (native), English

Profile	Ralf Bürger has coded software in the 80's, became a project manager and self-employed software engineering consultant in the 90's, a specialist for software development methods in the 00's, and a development process designer and coach in the 10's. In the 20's now he focuses on designing Processes-as-Requirements for agile development and for platform-based product development. Ralf lives in Germany, is married and when he is not working, he is usually riding his bicycles or driving his Tesla.

Ralf Bürger – SSE **Creating PaR** **Jan.2020 - today**	Since end of 2019 I am focused on a new methodical approach to design "Processes as Requirements" (PaR), supported by IESE Fraunhofer, Ease Solutions and KoDeCs. This approach brings processes where they belong: into the teams - in an agile and systematic way, scalable from a simple single process up to a complete process platform for product line engineering. It is based on the simple idea to treat regulatory standards and processes as what they are: requirements "how" to do the "what" (the product requirements). Checks for compliance, completeness and maturity become easier, as well as improving the processes by the teams for the next projects or for the process platform. I published "PaR - The Booklet" beginning 2021 and "PaR - The Book" end of 2022. Implementations in Jama, R4J for Jira, and Polarion are already done.

Ralf Bürger – SSE **industrial time series platform** **Feb.2021 - today**	Helping EGLV (Emschergenossenschaft/Lippeverband) and Neusta Analytics & Insights to build a platform for time series data from thousands of industrial sites and sensors, including data science AI aspects (on Hetida Designer, e.g. for predictive maintenance), big data management (based on Confluent, Greenplum, OpenShift., qualifying >100k records per second), OPC-UA interfaces, a zoo of apps on top, etc. I managed to get a grip one the project by applying PaR for the standards, processes, and product requirements with R4J, and to change the project style into an agile fashion of a combined Scrum/Kanban approach (Jira, Confluence). We are now having Sprints for T-shirt sizes L/XL with management attention on the one hand and a flow of T-shirt sizes S/M on the other hand. The platform will reach full scale end of this decade to last for much longer - a project for generations.
Ralf Bürger – SSE **ASPICE SWE.1** **Nov.2020 – Dec.2022**	For GKN Driveline I developed a process (Methodpark Stages) with work instruction for ASPICE SWE.1 (PTC Integrity) in a project for a large German OEM. I coached the software requirements analysis team skills, achieved the requested maturity level in the project, and prepared everything to reuse it in other projects.
Ralf Bürger – SSE **Automotive Development Processes** **Oct.2011 – Dec.2019**	After 10 years (2001-2011) with the automotive supplier HELLA I realized that it was time for them to switch from single customer projects to platform based product development. More and more OEMs needed similar products, which could be variants of a reference. Therefore I created the Variant Development Process (VDP), supporting agile development of software features and hardware components from a variable reference system architecture within a platform, reusing them in a scaled agile fashion into customer projects, and finally configuring and adapting them to the individual needs. The VDP needed to be standards compliant and I designed it in Methodpark Stages according to VDA A-SPICE and to the upcoming ISO 26550, respecting Scrum and later also Nexus. With a team of coaches we successfully applied this Product Line Engineering process framework to five different product families (e.g. Driver Assistent Systems, Lighting Electronics, Body Controller), also at engineering locations in China, India, USA and Romania.

	With this corporate experience I was finally asked in 2019 to establish a more systematic and efficient approach to manage the issues for a Battery Management System (BMS) project for the high voltage battery electric vehicles (BEV) of Daimler, working at the interface between Daimler and HELLA. I harmonized the tooling and the organization on both sides, also with a common smart and efficient dashboard for escalating to top management levels.
	In parallel in 2018 Saint Gobain Sekurit started to develop embedded systems and asked for creating and applying efficient standard compliant engineering processes. Therefore I supported in developing a draft development process landscape as sample-oriented Stage Gate Checklist in Jama, compliant to ISO, IATF and VDA standards. I finally supported it until mid 2020 to ease the appliance by the project teams. Therefore end of 2019 I did an internal A-SPICE assessment to figure out the improvement options.

Ralf Bürger **Apr.1984 – Oct.2011**	For the old stuff see my LinkedIn profile please.