"Autonomous Systems: What you always wanted to ask about robots and never dared to ask!"
by Dr. Paul Ploeger

Paul G. Plöger studied Mathematics and Physics at the University of Dortmund, UC Berkeley and received his Dr. rer. nat. from the University of Brandenburg in Computer Science with a thesis on timing estimation and optimization in embedded system design.

I this talk I will give a bit of a look back and focus on newer and most urgent engineering and computational problems encountered in this very rich and diversified field.

I will motivate the need and indicate some of our solutions for the provision of basic skills for the service robot like locomotion, localization and map building, but also higher abilities like perception, grasping or human robot interaction. Some of the most urgent scientific problems behind this will be explained and how we tackled them by so diverse solution approaches as analogue VLSI design, machine learning or service oriented architectures.

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