# Dr.-Ing. Pablo Zometa

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Pablo Zometa joined the German International University (GIU) in Berlin, Germany, as a full-time lecturer in 2021. After finishing his Ph.D. in 2017, he co-founded and led the development of embedded system of the award-winning IoT startup Embever. He has co-authored several papers in the most prestigious journals and conferences in control engineering.

**Education**

M.Sc. in Mechatronics, University of Siegen, 2007

Ph.D. (hons) from the Otto-von-Guericke Univesity in Magdeburg, Germany, 2017.
The topic of his dissertation was automatic code generation for model predictive control of embedded systems.

**Research Interests**

His current research interests are in how state-of-the-art machine learning approaches can be applied to energy-efficient building climate control, and autonomous mobile robots using low-cost embedded hardware.

**Selected Research**

- S. Lucia, D. Navarro, O. Lucia, P. Zometa, and R. Findeisen., Optimized FPGA implementation of model predictive control for embedded systems using high-level synthesis tool. IEEE transactions on industrial informatics, 14(1):137–145, 2017
- Faulwasser, T. Weber, P. Zometa, and R. Findeisen. Implementation of nonlinear model predictive path-following control for an industrial robot. IEEE Transactions on Control Systems Technology, 25(4):1505–1511, 2016
- P. Zometa and T. Faulwasser. Quantized deep path-following control on a microcontroller. 2023 European Control Conference (ECC), 2023
- P. Zometa, M. Kögel, and R. Findeisen. μAO-MPC: a free code generation tool for embedded real-time linear model predictive control. In 2013 American Control Conference, pages 5320–5325. IEEE, 2013

- P. Zometa, M. Kögel, T. Faulwasser, and R. Findeisen. Implementation aspects of model predictive control for embedded systems. In 2012 American Control Conference (ACC), pages 1205–1210. IEEE, 2012