

## We need your help!

Innovation is an important part of our work as we constantly strive to improve our building blocks, modules and frameworks. In this area we are looking for support for interns and students who want to learn, create and contribute own ideas.



### Student work / Internship / Theses

(Embedded hard- and software, FPGA, closed-loop control)

AixControl is a highly innovative company developing and producing power electronic solutions for customers in Germany and abroad.

#### Your tasks and topics

- Building up e.g. a technology demonstrator or a hardware or software module which showcases innovative solution or supports our projects
- Technological areas:
  - Real-time simulation, model-based control and system design, automatic code generation
  - Model predictive control methods and applications
  - Lua / MicroPython on embedded systems
  - Inter processor communication on multicore System-on-Chips
  - FPGA-based processing and closed-loop control units
  - Work on e.g. REST-APIs to realize distributed (embedded) systems
  - Realization and benchmarking of an embedded hypervisor solution with real-time guests

#### Your skills and interests

- Interest in embedded systems, microcontroller, closed-loop control, FPGAs or similar
- Knowledge are beneficial in the area of e.g. C++, VHDL, MATLAB/Simulink, PLECS, Python, Lua
- Ability to work independently and to work in a team



#### We offer

- Interesting projects and topics with a high degree of practical relevance and room for own ideas
- Flexible working times that are easy to align with university
- Enjoyable atmosphere, company events, excellent equipment
- Appropriate compensation and prospect of employment

Please send your application via e-mail to [adler@aixcontrol.de](mailto:adler@aixcontrol.de)