

() byte physics

Physics Problems Solved in Software

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15th Sep 2021

Company profile

- ▶ Founded in 2011
- ▶ Two people: Dr. Michael Huth and me
- ▶ 21st century company: Fully remote, no offices, software only

Customers

- ▶ Research institutes
- ▶ Manufacturers of scientific equipment
- ▶ Worldwide: USA, Japan, EU, CH, UK, Germany

Main areas of expertise

- ▶ Implementation of numerical algorithms
- ▶ Data acquisition with hardware (Cameras, Detectors, DACs) over Network/GPIB/USB/RS-232
- ▶ Control system software: Tango and EPICS
- ▶ Languages¹: C++/Python/Igor Pro
- ▶ Platforms: Windows/Linux/MacOSX

¹Additional languages for existing customers

The bragging page

- ▶ Sparse ODE solvers based on CVODE (COVID-19 research)
- ▶ Customer publications with our software (2020/2021): Nature, ELife, Nature Nanotechnology, Science, Cell
- ▶ Contributor to Neurodata without Borders (R&D award 2019)
- ▶ Data acquisition solutions for 1TB/h



Tango related projects

- ▶ Tango bindings for Igor Pro for RPC with python
- ▶ Experiment control for biological experiments (10 Tango devices, C++/Python, QTango, Linux/Windows)
- ▶ Working for Tango Collaboration since 2019
- ▶ Selected as official supplier in CFT in 2021

Closing

- ▶ Thanks to the Steering Committee for choosing us
- ▶ Big thank you to the ESRF administration for handling the CFT and our numerous questions so well