

Pulse waveform data processing for preclinical PET scanners using discrete frontend electronics and FPGA

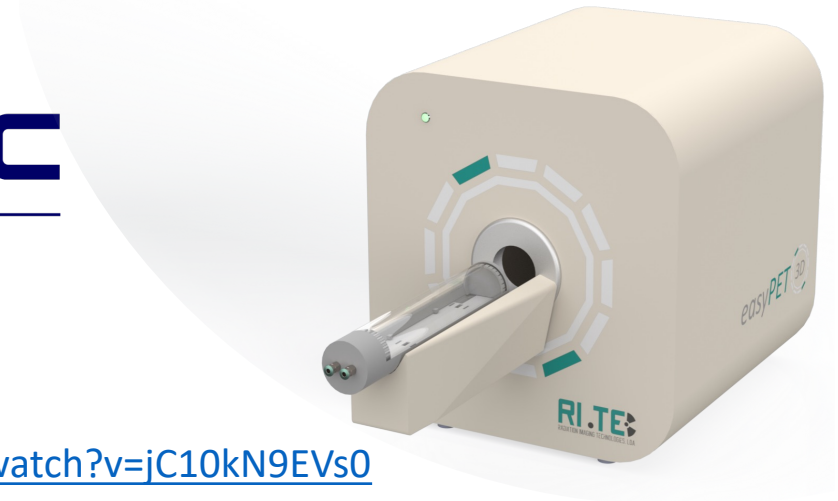
P.M.M. Correia – pmcorreia@ua.pt

iPET project – Intelligent PET preclinical scanner based on the **EasyPET** scanning method

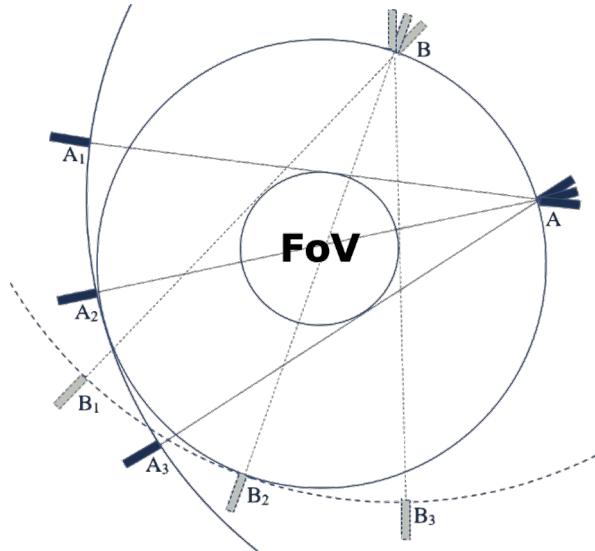
Collaborative work between



<https://exatronic.pt>



EasyPET scanning method

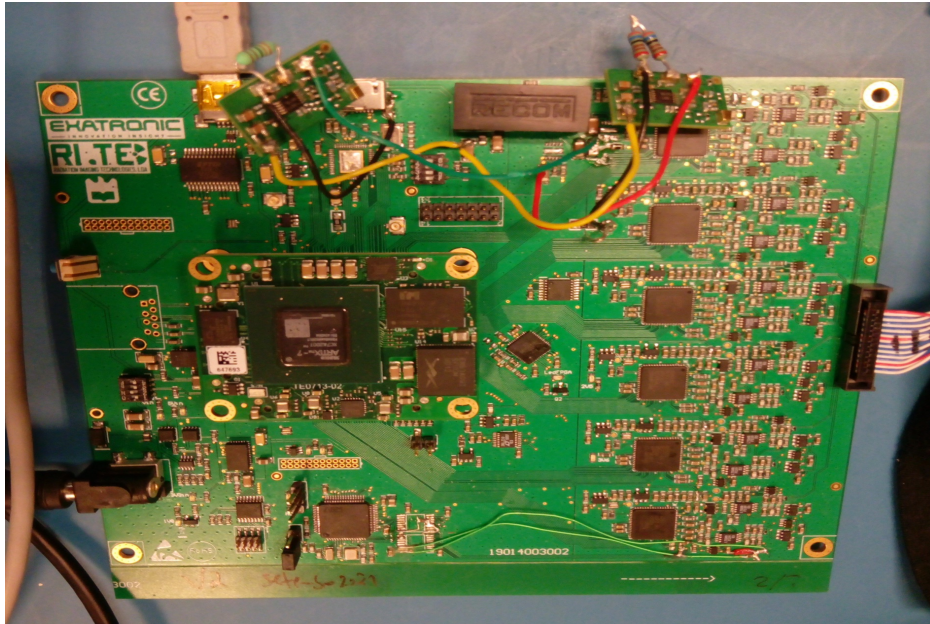


<https://www.youtube.com/watch?v=jC10kN9EVs0>

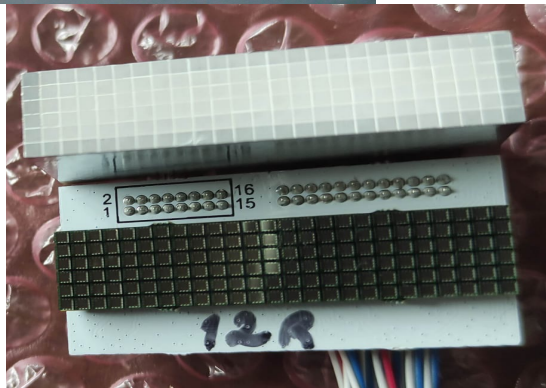


Pulse waveform data processing for preclinical PET scanners using discrete frontend electronics and FPGA

Custom made electronics solutions



- 1 - Xilinx Artix-7 200T-2C
- 6 - Dual Channel ADCs AD9231
- 12 - Preamps (LTC6229)
- 150 LYSO crystals
- 150 Ketek SiPM



Signal processing and Detector discrimination using Flood Maps

