

Servizio di Elettronica @Genova

- Personale
- Competenze
- Strumentazione
- Attivita'

Paolo Musico



Personale Servizio Elettronica

- **Responsabile**
 - Paolo Musico
- **Collaboratori tecnici direttamente afferenti**
 - Massimo Cariello
 - Massimiliano Cresta
 - Giuseppe Mini'
 - Saverio Minutoli
 - Fabio Pratolongo

Competenze

- Progettazione di sistemi elettronici
- Sviluppo PCB
- Sviluppo FPGA
- Utilizzo bus industriale VME
- Montaggi/rilavorazioni SMT e TH
- Collaborazione all' installazione on-site
- ...

Software utilizzati

- Orcad Capture, Allegro
- QuestaSim, HyperLynx
- ISE, Vivado
- Quartus Prime
- Altium Designer

The logo for Cadence, featuring the word "cadence" in a lowercase, sans-serif font with a registered trademark symbol, set against a light gray rectangular background.The logo for Mentor, featuring the word "Mentor" in a bold, red, sans-serif font with a registered trademark symbol, and the tagline "A Siemens Business" in a smaller, black, sans-serif font below it.The logo for Xilinx, featuring a stylized red and white "X" icon followed by the word "XILINX" in a bold, black, sans-serif font, all set against a light gray rectangular background.The logo for Intel, featuring the word "intel" in a blue, lowercase, sans-serif font with a registered trademark symbol, enclosed within a blue oval shape, all set against a light gray rectangular background.The logo for Altium Designer, featuring the word "Altium" in a bold, black, sans-serif font with a registered trademark symbol, and the word "Designer" in a bold, gold, sans-serif font below it.

Strumentazione

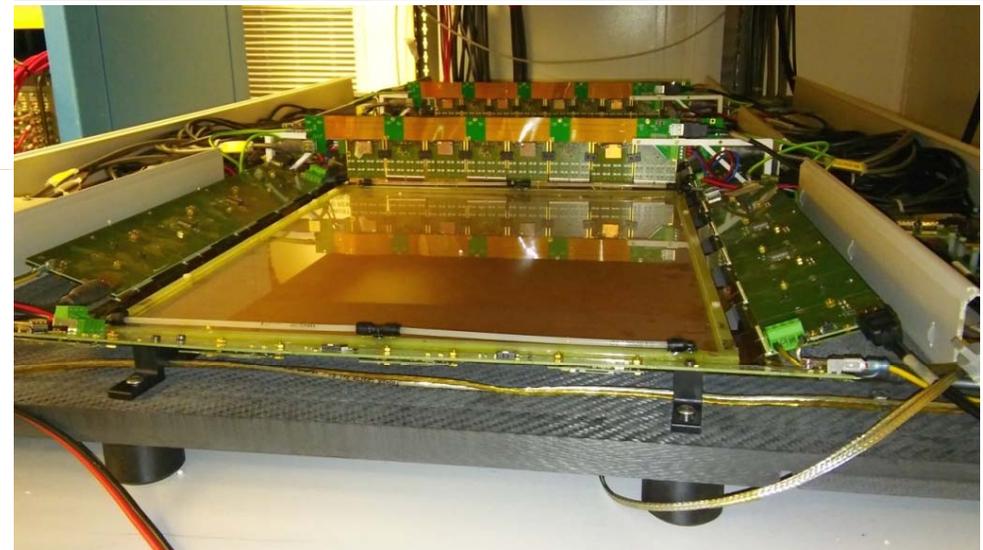
- Fresa LPKF Protomat S63 prototipatrice PCB
- Microscopi per rilavorazione/ispezione SMT (Vision, Leica)
- Sistema rilavorazione BGA (Metcalf)
- Sistema di test fotorivelatori
 - Camera buia (120×65×55 cm) con banco ottico (90×60 cm)
 - Laser Hamamatsu PLP-10, 439 nm, 100ps
 - Fotometro Newport 2930C, detectors 818-UV
 - Accoppiamento in fibra ottica, attenuatori, collimatori, splitters, ...
- Minicrates VME con controller Struck SISI 100/3100

Attività' passate e presenti

- LNGS: Borex, SOX, DarkSide50, DarkSide20k
- Jlab: Clas I 2, SBS, BDX
- CERN: Atlas, LHCb, CMS, TOTEM
- LNS: Nemo, KM3NeT
- Fisica medica: MOIRA, TOPEM
- Divulgazione: Festival della Scienza, EEE, AstrO
- Collaborazione con industria

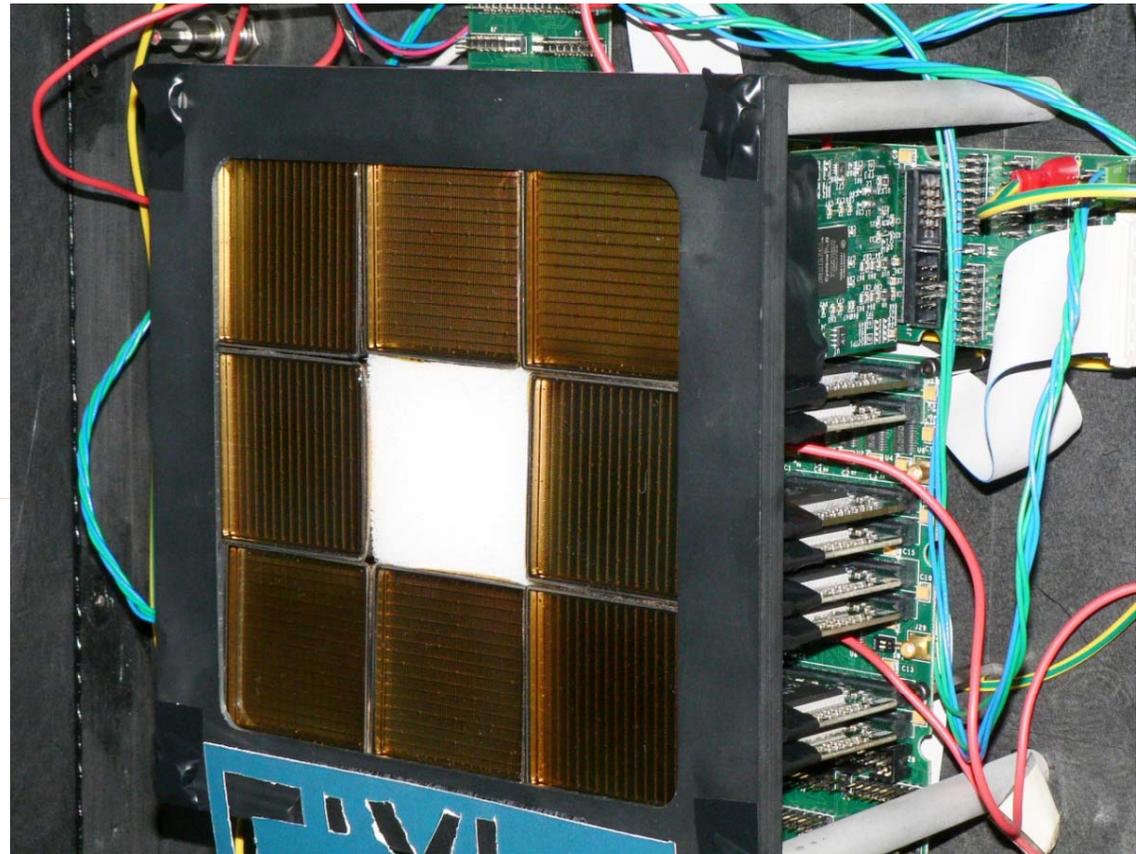
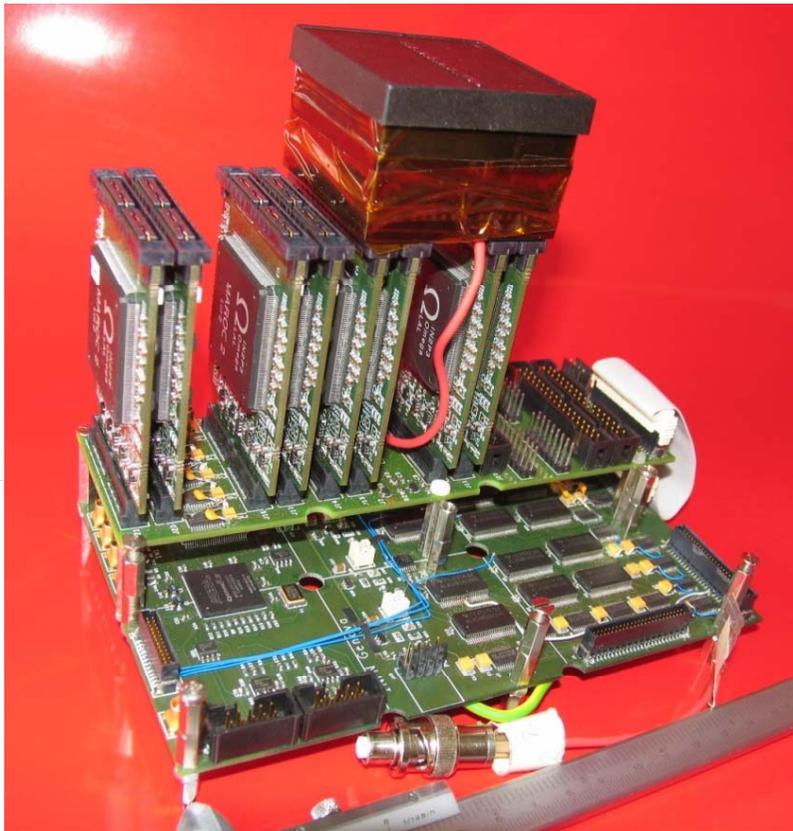
SBS GEM electronic system

- Commissioning of 25K channels



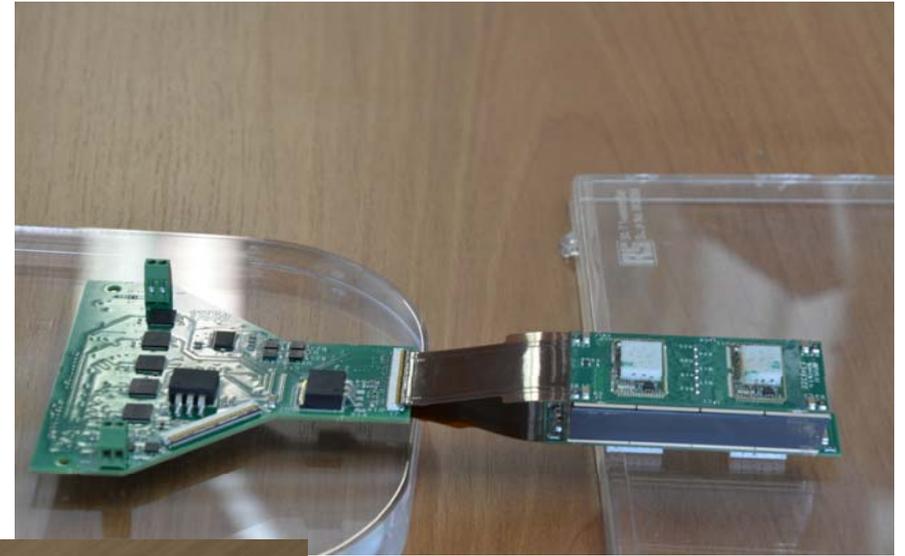
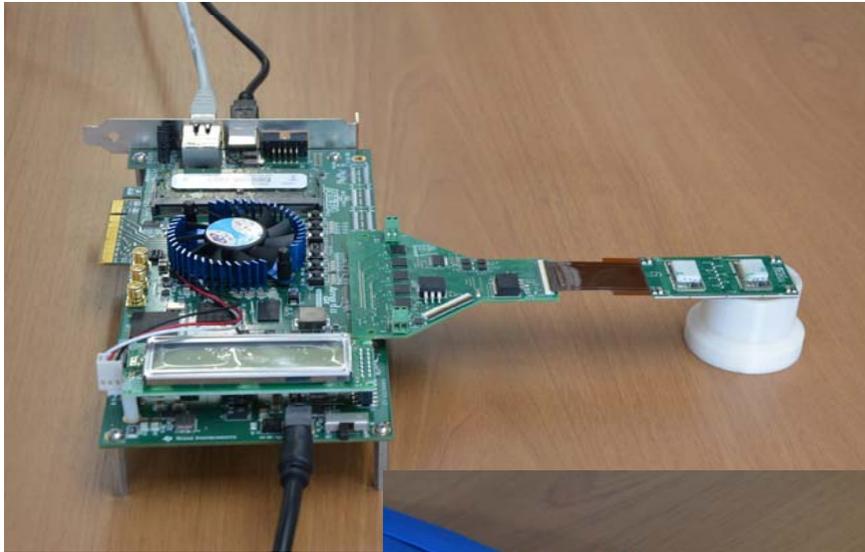
MOIRA

- Flat panel multi anode PMT readout system for scintimammography and RICH prototype



TOPEM

- Prototipo di probe endorettale per PET alla prostata



DarkSide20k

- Front end e controllo per PMT 20”



KM3NeT

- Progetto scheda CLB e assistenza per la fornitura di 650 unita'
- Integrazione stringhe

