

INSTRUMENTATION TECHNOLOGIES





Company

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Agenda

- **Q COMPANY OVERVIEW**
- **Q POSSIBLE CAREER PATHS**
- Q EXAMPLE OF OPAC FELLOWSHIP

Instrumentation Technologies









INSTRUMENTATION TECHNOLOGIES



Produc**O**Br**S**lio of

more than 20



LIBERA

SOLUTIONS FOR INDUSTRIES

Consulting expertise

in other

technologically

advanced fields

- MedTech
- Smart cities
- Aerospace etc.

RED PITAYA

Open-source
general purpose
laboratory
instrument



Solutions for Particle Accelerators

Started in 1998 as a collaboration between synchrotrons Elettra, PSI, Diamond and Soleil. The company developed Libera Electron, putting together an **analog front end**, fast **A/D converters** and a **digital processor** (FPGA).



LIBERA









Solutions for Particle Accelerators

Beam diagnostics:

- Beam Position Monitoring
- Beam Loss Monitoring
- Beam Current / Beam Phase

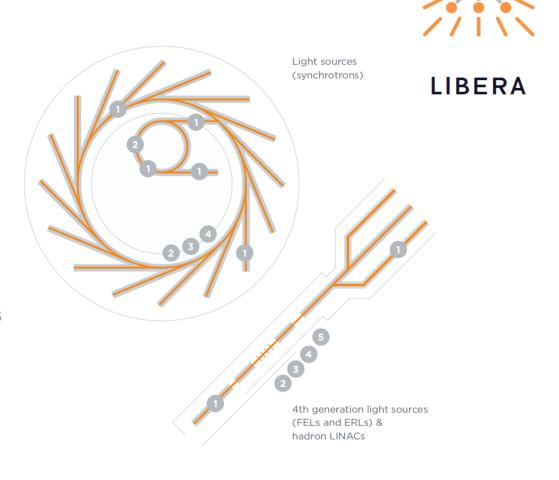
LLRF controls

- LINAC
- Proton synchrotrons

RF generation and transfer

- Reference Master Oscillators
- RF distribution

General Purpose DAQ (RF, Current)



Solutions for Particle Accelerators

- A global brand in the field of beam diagnostics and feedback systems
- Working with labs in more than 30 countries worldwide
- Constantly caring for clients sales, support, training, maintenance
- Requires a lot of travelling ¼





Organization (Libera unit)

Project management (2 PM)

SW development group (6 SW engineers)

FPGA development group (2 FPGA engineers)

HW development group (5 HW engineers)

Sales and support group (5 engineers + customer coordinator)

Quality control (4 test engineers)

POSSIBLE CAREER PATHS



- Deep knowledge of a specific field
- Involved in development applications



- Application level knowledge
- In-touch with clients

TECHNICAL PROFILE

✓ Possible fields

- Hardware, Software, FPGA, System architecture
- Each takes a part in product development cycle
- Different roles within the department
- Mentorship, trainings

✓ Working with the customer

- Even though you don't physically visit them
- In contact over email, meetings etc.

Involved with development applications

- Deeper technical knowledge in a specific field
- Cultivating specialists in a specific field

✓ Working on projects

- Long or short-term projects
- Short: client needs a small feature
- Long: GSI FAIR









CUSTOMER-ORIENTED PROFILE

- ✓ Application level knowledge
 - Technical knowledge + people skills
 - Important to understand the client needs
 - Business knowledge is also important
- ✓ Working with the customer

Sales engineer – preparing proposals, followingup on the discussions, searching for funding, important to understand what the client wants, visiting conferences

Support engineer – Offering training and maintenance to our existing clients, preparing product documentation, looking for new technologies

Possible fields

Sales engineer, support engineer, product manager

Involved in every part of product cycle

You can be involved in innovation, product development, naming the product and sales activities such as setting the price etc.

CLIENT



If we don't get in touch with the client we only know what the client tells us – very limited knowledge of the client's needs. Consequently worse service for the client

CLIENT





By visiting the client we can see their environment and understand their needs and problems in a better way. We notice that the client is willing to tell you more if they physically meet you.

RESULT:

- Make a relationship with the client and gain trust
 - Better able to cater to the client's needs
- Understand the requirements which drives new product development

CONNECTION TO RESEARCH

1. Doing measurements together with the client and preparing a paper together Example: IPAC 2019 we prepared two papers in collaboration with Elettra Sinchrotrone in Trieste, Italy showing the valuating of a new 500 MHz digitizer and evaluation of pilot-tone calibration based BPM system

2. Collaborating the client to drive new product development

Example: Our product Libera Spark was created in collaboration with ESRF

THE GOAL:

We don't want to be a company who creates products which are then useless to the labs. We prefer collaborating with the labs and determining specifications based on their needs









Example of an OPAC fellow's

C A R G N E L U T T 2012-14 2015-16

Started as a **software developer** – involved in
the wholesome process
of developing a product

Involved in product
definition in one
specific project and
started to play a role of
product manager

Became head of the business unit, taking care of the highest strategic decisions together with the department and CEO

2017

2012

Started working at Instrumentation
Technologies
through OPAC

2014-15

Soon showed potential while interacting with the client and worked as a support engineer

2016-17

As a **sales engineer** started making more strategic decisions about the product's

sales

Role of OPAC

M A N U E L C A R G N E L U T T I

- KNOWLEDGE
- Trainings and conferences
- Not only technical knowledge

- ✓ NETWORKING
- Opportunity to get new contacts
- Key-point for each fellow

- ✓ RESOURCES
- The company was able to provide time and budget
- Not easy for companies

Role of Instrumentation Technologies

DIFFERENT COLLABORATIONS

- An unique balance of R&D activities and commercial aspects
- Able to collaborate with the end user

GIVEN A LOT OF RESPONSIBILITY FROM THE

START

- The CEO gives trust and empowers people in new roles
- Especially if you are willing to take responsibility and pursue the company

√ TRAVEL

 If you are willing to travel the company will enable you to do so as much as possible





















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Thank you!

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