# LHC Career Networking Event

Costanza Cavicchioli

Lead Engineer at Baker Hughes

### At CERN

2005 - Summer Student

2006 - Technical Student

2008 - Doctoral Student

2011 - Fellow

16-Nov-20

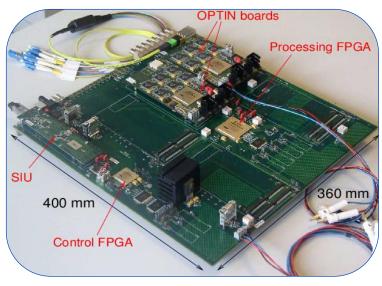
2015

#### Electronic hardware and firmware design

Commissioning and optimisation of ALICE SPD Pixel Trigger Firmware, software, automatic procedures

#### Detector expert

Shifters training, operational procedures, on-call





### At CERN

2005 - Summer Student

2006 - Technical Student

2008 - Doctoral Student

● 2011 - Fellow

**2015** 

#### Microelectronic circuit design

Monolithic pixel sensors for ALICE ITS upgrade Studies for radiation hardness

#### Detector expert

Detector and trigger operation during runs, on-call

#### **CERN** guide





### **Evaluating changes**

WHY: flat structure, hard to stay permanently, right age for a change

WHAT: set priorities to navigate thousands of job openings

Job sector, career development, big/medium/small company, geography, ...

Go for your top 5 dream companies

**HOW:** consider multiple sources of job openings

Companies websites, Linkedin, recruiting websites, networking, ...

**WHO**: get help and sponsorship

• From your network, colleagues, mentors at Universities, ...

**WHEN**: start early

16-Nov-20

Time to hire 5-6 months on average

### At General Electric (later Baker Hughes)

#### **Energy technology company**

"We take energy forward - making it safer, cleaner, and more efficient for people and the planet"

- 120 countries
- 58000 employees
- 17 global innovation centres
- ~2700 patents issued in 2019
- 8 additive manufacturing centres
- 75 new product launches in 2019
- 14.5% electricity from renewable sources







## At General Electric (later Baker Hughes)

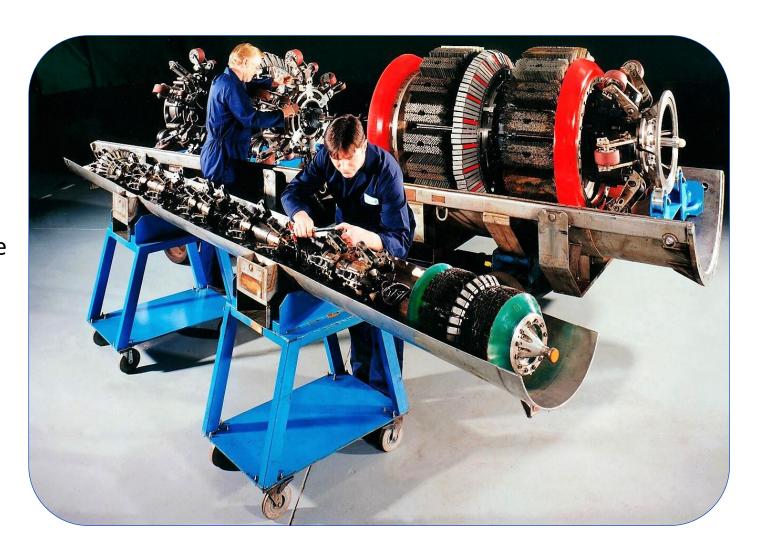
2014 - Electronics Engineer
General Electric, Oil&Gas
Newcastle upon Tyne, UK

2017 - Engineer Embedded Software
Baker Hughes, a GE Company
Newcastle upon Tyne, UK

2018 - Lead Electronics EngineerBaker Hughes, a GE Company

Paris, France

16-Nov-20

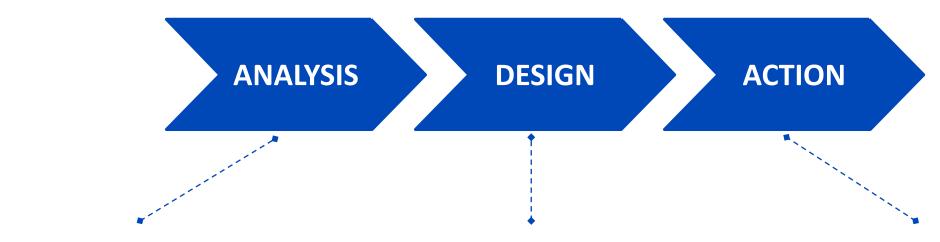


## At General Electric (later Baker Hughes)

- International team (UK, France, Germany, Canada, USA)
- Managing firmware and hardware designs
  - Magnetic flux leakage, ultrasound sensors, phased arrays
- Design authority for data acquisition units and Graphical User Interfaces
  - Multiple levels of data elaboration and storage
- Six-Sigma Green Belt
  - Certification for process improvement



### Prepare your application



- Carefully check the job description
- Navigate company's website

- Ad hoc CV for each company
- ✓ Check "unwritten rules" and customs

- Think about possible HR questions
- ✓ Rehearse
- ✓ Be yourselves



TIP: take care of your digital footprint

### In the company's shoes

What could they be looking for?

- Effective and efficient solutions
- Working under pressure, with tight schedules
- International and multidisciplinary experience
- Autonomy, self-management

•





Speak the language of your interviewer (HR, technical manager, department head ...)

# My experience

#### **CERN** vs industry

Similarities	Differences
Innovation spirit	Daily pace
International environment	Project size and speed
Attention to training	Navigating the hierarchy
Technical skills	Development and growth plan
	Ratio manager / entry-level employer

### Questions

Most effective way to obtain interviews?

Are CERN alumni more/less appreciated than others?

Fundamental research or industry?

Most important skills acquired at CERN?