PERSONAL INFORMATION

Luca Rumiz



Elettra-Sincrotrone Trieste S.C.p.A.
Strada Statale 14 - km 163,5
34149 Basovizza, Trieste ITALY

- -

Luca.Rumiz@elettra.eu

www.elettra.eu

telegram -

Sex M | Date of birth - | Nationality Italian

POSITION

-

WORK EXPERIENCE

1999 - Elettra-Sincrotrone Trieste S.C.p.A.

03/2022 - “Vacuum Systems” work package leader of the Elettra 2.0 Project

- Development of the Elettra 2.0 vacuum systems (storage ring and front ends) at the Elettra synchrotron radiation facility
- Definition of the project vacuum requirements and study of the possible technological solutions
- Simulations of the pressure profiles
- Prototyping of the main vacuum components and tests
- Collaboration with the CERN vacuum group to develop the non-evaporable getter (NEG) coatings for the storage ring vacuum chambers
- Budget planning and team management

08/2014 - Head of the Elettra vacuum system

- Maintenance and development of the vacuum system (linac / booster / storage ring) at the Elettra synchrotron radiation facility
- Budget planning and team management

08/2014 - Head of the Vacuum laboratory

- Tests on vacuum pumps and instrumentation
- Design and test of vacuum components for large vacuum systems
- Vacuum compatibility tests of small samples (motors, detectors, mechanical parts)
- Collaboration with the Industrial Liaison Office
- Support to users
- Budget planning and team management
- Participation in several conferences
- Participation in the CERN Accelerator School (CAS) on “Vacuum for particle accelerators 2017”

01/2013 - Head of the FERMI@Elettra vacuum system

- Maintenance and development of the vacuum system at the FERMI@Elettra free electron laser facility
- Budget planning and team management

© European Union, 2002-2015 | europass.cedefop.europa.eu

09/2001 -

Vacuum engineer

- In staff with the Head of the Elettra vacuum system
- Collaboration with the Head of the Vacuum laboratory
- Collaboration to design and installation of the FERMI@Elettra vacuum system
- Installation and maintenance of vacuum components in Elettra
- Collaboration to design and installation of the Elettra booster
- Participation to the European Project “More Moore”
- Calculation and computer simulation of vacuum systems

05/1999 – 04/2001

Laboratory technician

- Support to the SuperESCA beamline at the Elettra synchrotron radiation facility
- Setting-up and test of a device to produce a supersonic molecular beam
- Instrumentation interfacing and LabVIEW programming

EDUCATION AND TRAINING

1990-1998

Master’s degree in Physics

110/110 and honours

Università degli Studi di Trieste, Trieste, Italy

- Work based on surface physics technics: XPS, LEED, mass spectroscopy, TPD, TDS
- Basic knowledge of vacuum systems

1986-1990

High school graduation

57/60

Liceo scientifico “G. Galilei”, Trieste, Italy

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B2	B1	B1	B2
French	A2	B1	A2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Brainstorming, listening, collaboration, content management, critical thinking

Organisational / managerial skills

- Leadership (currently responsible for a team of 8 people), teamwork, team management, delegation, decision making, resource management

Job-related skills

- Attention to detail, identifying problems, problem solving, reviewing, reporting, research

© European Union, 2002-2015 | europass.cedefop.europa.eu

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Pro	Pro	Ind	Pro	Pro

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

- good **command** of office suite (word processor, spread sheet, presentation software)

Driving licence B

ADDITIONAL INFORMATION

Publications

- **A supersonic molecular beam for gas-surface interaction studies with synchrotron radiation**, Baraldi, A. , Rumiz, L., et al., JVST-A, Vol. 20, Issue 3, May 2002, Pages 683-687
- **Ten years of ELETTRA vacuum system experience**, Mazzolini, F. , Rumiz, L., et al., Vacuum, Vol. 73, Issue 2, 19 March 2004, Pages 225-229
- **A surface core-level shift study of hydrogen interaction with Rh(1 1 1)**, Surf. Sci., Vol. 566-568, Issue 1-3 PART 1, 20 September 2004, Pages 486-491
- **An analysis of EUV resist outgassing measurements**, Dean, K.R., Rumiz, L. et al., Proceedings of SPIE, Vol. 6519, Issue PART 1, 2007
- **The new Elettra booster injector**, Svandrlik, M., Rumiz, L. et al., Proceedings of the IEEE Particle Accelerator Conference, 2007, Pages 983-985
- **The photon analysis, delivery, and reduction system at the FERMI@Elettra free electron laser user facility**, Zangrando, M., Rumiz, L., et al., Rev. of Sci. Inst., Vol. 80, Issue 11, 2009
- **The gas attenuator vacuum system of FERMI@Elettra**, Rumiz, L., Cocco, D., et al., IPAC 2011, Conference Proceeding, 2011, Pages 1530-1532
- **Highly coherent and stable pulses from the FERMI seeded free-electron laser in the extreme ultraviolet**, Allaria, E., et al., Nature Photonics, Vol. 6, Issue 10, October 2012, Pages 699-704

© European Union, 2002-2015 | europass.cedefop.europa.eu