

# Valerio Bruschi

## Personal information

Nationality  
Address  
Telephone  
Email  
Skype

## Work Experience

<i>Dates (from - to)</i>	From October 2018 to April 2019
<i>Position held</i>	<b>Intern</b>
<i>Employer</i>	Banca d'Italia - Eurosistema, Frascati (Italy)
<i>Main activities and responsibilities</i>	<ul style="list-style-type: none"><li>○ Benchmark methodology definition to stress test Private Cloud resources;</li><li>○ Performance evaluation of different virtualization technologies in a Private Cloud environment.</li></ul>
<i>Dates (from - to)</i>	From October 2017 to September 2018
<i>Position held</i>	<b>Intern</b> (6 months), <b>R&amp;D Engineer</b> (6 months)
<i>Employer</i>	Telecom ParisTech – IMT (Institut Mines-Télécom), Paris (France)
<i>Main activities and responsibilities</i>	<p>Research collaboration with Cisco about Vector Packet Processor (VPP), in particular focused on <b>Access Control Lists</b> (ACLs):</p> <ul style="list-style-type: none"><li>○ Defined a test methodology able to replicate a real ACL scenario;</li><li>○ Developed a new implementation scalable and two orders of magnitude faster than previous versions released in VPP.</li></ul> <p>(VPP is a software router and it has been released as part of the Linux Foundation FD.io project about fast and scalable dataplane solutions).</p>
<i>Dates (from - to)</i>	From December 2015 to September 2017
<i>Position held</i>	<b>Researcher</b>
<i>Employer</i>	CNIT – National InterUniversity Consortium for Telecommunications, Rome (Italy)
<i>Main activities and responsibilities</i>	<p>European research projects (BEBA and SUPERFLUIDITY), in particular focused on <b>stateful dataplane</b> (OpenState, Open Packet Processor) in SDN/NFV scenario:</p> <ul style="list-style-type: none"><li>○ Developed an interface in userspace able to configure and debug the proof of concept prototype (FPGA based);</li><li>○ Network use cases DevOps in order to test and validate the prototype.</li></ul>

## Education

<i>Title of qualification awarded - Date</i>	Master degree in “ <b>ICT and Internet Engineering</b> ” (110/110 cum laude) - May 2018
<i>Name and type of organization</i>	Università degli studi di Roma “Tor Vergata” Rome (Italy)
<i>Thesis</i>	“Implementation and Analysis of Packet Classification algorithms for Access Control List in the Vector Packet Processor framework”. Advisor: prof. Bianchi; Co-Advisor: prof. Rossi, dott. Pontarelli.
<i>Title of qualification awarded - Date</i>	Bachelor degree in “ <b>Internet Engineering</b> ” (110/110 cum laude) - October 2015
<i>Name and type of organization</i>	Università degli studi di Roma “Tor Vergata” Rome (Italy)
<i>Thesis</i>	“Design e implementazione di un’interfaccia di configurazione per un prototipo di switch OpenState su FPGA”. Advisor: prof. Bianchi; Co-Advisor: dott. Bonola, dott. Pontarelli.
<i>Title of qualification awarded - Date</i>	High School Diploma in Science - July 2012
<i>Name and type of organization</i>	Liceo Scientifico Statale “Isacco Newton”, Rome (Italy)

Personal Skills: languages					
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<i>Italian</i>	Mother tongue				
<i>Other languages: (self-assessment)</i>	<b>UNDERSTANDING</b>		<b>SPEAKING</b>		<b>WRITING</b>
	Listening	Reading	Interaction	Production	
	<i>English</i>	B2	B2	B2	B2
	<i>French</i>	B1	B1	A2	A1

Levels: A1/2: Basic user – B1/2: Independent User – C1/2 Proficient user  
Common European Framework of Reference for Languages (CEFR)

Computer Skills	
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<i>Software skills</i>	Good knowledge of operating systems: <b>Linux, Windows</b> . Proficient user of <b>Microsoft Office suite</b> . Good use of <b>Matlab, Feko, Photoshop</b> .
<i>Programming languages</i>	Good knowledge of software programming: <b>C, C++, Python, Bash, Java, Android</b> . Basic knowledge of web programming: <b>HTML, CSS</b> .
<i>Database</i>	Experience with <b>SQL, MySQL, InfluxDB</b> .
<i>Networking</i>	Excellent knowledge of: <b>Internet protocols, Network security, Network architecture (SDN/NFV), Enterprise networks (Cisco IOS/GNS3 simulator), Mobile Wireless Networks (3G/4G), Cloud computing</b> .

<b>Driving license</b>	Italian (category B, Italy, 2012)
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<b>Hobbies and Interests</b>	I like play volleyball at a competitive level and watch/play football weekly with friends. I'm really interested in photography and modern art. I'm a proudly bike rider. Others: Independent movies. Alternative/Rock/Indie Music.
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I give the authorization for the treatment of my personal data according to Italian Law D. Lgs. 196/2003.  
Rome, May 2019.