

PERSONAL INFORMATION Rosario Catelli

POSITION PhD Student (funded by Hitachi Rail STS, previously Ansaldo STS)

WORK EXPERIENCE

23/11/2017–21/11/2018 Internship
Kineton S.r.l., Naples (Italy)
Media and Telco Department member. Covered topics:

- Mobile application software testing (for Sky Italia S.r.l. and Comelit Group S.p.A.)
- A theoretical introduction to Software Defined Networking, Network Function Virtualization, Virtual Networks and Cisco NSO, Continuous Integration/Continuous Delivery
- Study of DVB/HbbTV standards

EDUCATION AND TRAINING

01/03/2018–Present PhD Student (funded by Hitachi Rail STS, previously Ansaldo STS) EQF level 8
Università degli Studi di Napoli Federico II, Naples (Italy)
Hitachi Rail STS Cyber Security and Assurance Control Department member. Management activities concerning:

- Security Operation Center (SOC), Security Information and Event Management (SIEM) and Computer Emergency Response Team (CERT) for the Company IT Infrastructure
- The definition of security standards and related policies and implementation requirements also in accordance with Laws and Regulations
- Participation in ISO/IEC 27001 certification support activities
- Performing Cyber Risk Analysis (through PILAR tool) on IT infrastructures and systems
- The drafting of documentation relating to plans to improve the company information infrastructure protection
- The control performed on the IT infrastructure for the verification that configurations and security rules implemented on cybersecurity countermeasures are appropriate and consistent with the policies defined also by conducting Vulnerability Assessment and Penetration Tests aimed at identifying defects and vulnerabilities presence
- Monitoring of Logs generated by security devices (Firewall, IPS/IDS, Antivirus, etc) and critical systems on the network to prevent or react to security attacks and incidents
- The investigation, also conducted through Digital Forensics tools and methods, of the violated systems to determine the existence of new threats and the related and intrusion methods
- The development of new methods and tools to improve the effectiveness and efficiency of the Security Incident Management process
- Participation in national and international projects related to Cybersecurity issues

11/2018–Present Tutoring, didactic-integrative, preparatory and recovery activities
Università degli Studi di Napoli Federico II, Napoli (Italy)
Up to 50 hours (41.5 hours completed, 6 hours scheduled, 2.5 hours to be defined) of teaching support for first year students. I have carried out tutoring activities for the course *Fundamentals of*

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Computer Science held by Prof. Porfirio Tramontana.

08/04/2019–09/04/2019 Training course on Vulnerability Assessment
BlackSw4n S.r.l., Genova (Italy)

01/2018 License to practise the profession of Information Engineer A Section
Università degli Studi di Napoli Federico II, Naples (Italy)

09/2014–09/2017 Master's Degree in Electronic Engineering EQF level 7
Università degli Studi di Napoli Federico II, Naples (Italy)
Thesis: *Cyber-Physical Systems: Ruolo e Importanza della Misurazione*
Final Mark: 110/110

09/2011–03/2015 Bachelor's Degree in Electronic Engineering EQF level 6
Università degli Studi di Napoli Federico II, Naples (Italy)
Thesis: *Acquisizione e caratterizzazione di un trasduttore di forza/momento ATI Nano 17*
Final Mark: 110/110

Operating Systems - Programming and Scripting Languages

Linux, Windows - Assembly, C, G (graphical programming language), HDL (Verilog, VHDL), HTML, Java, Javascript. LaTeX, RDF, XML

IDE and Tools

Altera QuartusII - Cadence Design System - Eclipse - IAR Embedded Workbench for ARM (EWARM)
- Matlab - Microwind2 - National Instruments LabVIEW - Spice (PSpice, LTSpice) - Synopsys
Sentaurus TCAD - Texas Instruments Code Composer Studio

Apache Jena - Apache Tomcat - Docker - Git - Jenkins - JFrog Artifactory - MiniNet - Office Suite -
Protégé - SonarQube - VirtualBox - WireShark

Eurofins Scientific Test Suite for HbbTV - IRT's BRAHMS - Vizion' R - Sofia Backstage HbbTV
Platform by Sofia Digital LTD

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

English

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Cambridge CAE - Reference No. 1961T5885006 - June 2019

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

Communication skills I have gained good interpersonal and communicative skills through working relationships with over fifty customers (individuals and offices), managing their fleet (including servers), small LAN and PTP networks for betting centres, DTT, SAT and video surveillance systems.

Organisational / managerial skills I have acquired good organizational skills by managing a friend's PC store for some months.

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Job-related skills I am an open and sociable person. The different working and extracurricular experiences, as well as many years of sport, have taught me the importance of constructive confrontation with others and the pleasure of being part of a team.

Driving licence B

ADDITIONAL INFORMATION

- Publications
- Casola, V., Catelli, R., & De Benedictis, A. (2019, June). A first step towards an ISO-based Information Security Domain Ontology. In *28th IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE-2019)*. IEEE.
 - Mokalled, H., Catelli, R., Casola, V., Debertol, D., Meda, E., & Zunino, R. (2019, June). The applicability of a SIEM solution: Requirements and Evaluation. In *28th IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE-2019)*. IEEE.

- Honours and awards
- Acknowledgment in:
- Tedesco, A., Gallo, M., & Tufano, A. (2017, September). A preliminary discussion of measurement and networking issues in cyber physical systems for industrial manufacturing. In *2017 IEEE International Workshop on Measurement and Networking (M&N)* (pp. 1-6). IEEE.

- Conferences
- Local Committee member. In *28th IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE-2019)*. IEEE.

Memberships IEEE Federico II Student Branch (STB64309) Chair

- Privacy Policy
- I authorize the processing of my personal data pursuant to:
- Italian Legislative Decree n° 196 dated 30/06/2003 - Personal Data Protection Code
 - Regulation (EU) n° 2016/679 - General Data Protection Regulation (GDPR)

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