

Niccolò Izzo

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LINKS

Github: [n1zzo](#)
 JID: [n@izzo.sh](#)
 Twitter: [@n1zzo](#)

COURSEWORK

PHD

Summer School on Real World Crypto
 Advanced Computer Security
 Strategic Decision Making

GRADUATE

Computer Security
 Cryptography
 Code Transformation & Optimization
 Formal Languages and Compilers
 Advanced Computer Architectures

SKILLS

PROGRAMMING

Over 10000 lines:
 C++ • Python3
 Over 5000 lines:
 Java • C#
 Familiar:
 Verilog • LLVM • OpenCL

COMMUNICATION

Six years long membership of Politecnico Open unix Labs, with more than 12 public lectures and 200+ teaching hours in the Politecnico di Milano environment. Multicultural experiences obtained in a three year volunteering at the Chaos Communication Congress.

LANGUAGE

Cambridge First Certificate in English (FCE), 2012 grade B

OPEN SOURCE

GNU/LINUX

6+ years experience with GNU/Linux.

LINEAGEOS FOR MICROG

Maintainer of a LineageOS (Android Custom ROM) fork, with more than 20000 active users.
 Website: [lineage.microg.org](#)

PATENTS

2018-1472

UFS Bus Encryption for NAND and Emerging NVMs

EDUCATION

POLITECNICO DI MILANO

PHD IN COMPUTER SCIENCE

Expected July 2021 | Milan, Italy

MSC IN COMPUTER SCIENCE AND ENGINEERING

Grad. Dec 2018 | Milan, Italy

Final Grade: 110L / 110

BS IN INGEGNERIA INFORMATICA

Grad. July 2015 | Milan, Italy

Final Grade: 95 / 110

MASTER'S THESIS

ROWHAMMER

Title: Reliably achieving and efficiently preventing Rowhammer attacks
 Available at: politesi.polimi.it/handle/10589/137667

PUBLICATIONS

EMERGING MEMORY ENCRYPTION

N. Izzo, A. Barengi, L. Breveglieri, G. Pelosi, P. Amato "A secure and authenticated host-to-memory communication interface"
 Published at: ACM International Conference on Computing Frontiers 2019 (CF19), Alghero, Sardinia, , Italy, April 30 - May 2. Proceedings ACM 2019.

ROWHAMMER

A. Barengi, L. Breveglieri, N.Izzo, G. Pelosi "Software-only Reverse Engineering of Physical DRAM Mappings for Rowhammer Attacks"
 Published at: 3rd International Verification and Security Workshop (IVSW), Cap Roig, Platja d'Aro, Costa Brava, Spain, July 2-4. Proceedings IEEE 2018.

64KEY

F. A. Izzo, L. Aspesi, A. Bellini, C. Pacchiarotti, F. Caimi, G. Persano, N. Izzo, P. Tordini, L. Mottola, M. Bianchini, S. Maffei "Demo Abstract: 64Key - A Mesh-based Collaborative Platform"
 Published at: 16th ACM Conference on Embedded Networked Sensor Systems (SenSys), Shenzhen, China, November 4-7.

SMART TOY

F. Delprino, C. Piva, G. Tommasi, M. Gelsomini, N. Izzo, M. Matera, "ABBOT: A Smart Toy Motivating Children to Become Outdoor Explorers"
 Published at: International Conference on Advanced Visual Interfaces (AVI), Castiglione della Pescaia, Grosseto (Italy), 29 May - 1 June 2018.

EXPERIENCE

MICRON SEMICONDUCTOR S.R.L. | COMPUTER SECURITY INTERN

Jul 2018 - Jul 2019 | Vimercate, Italy

Design and evaluation of security architectures for emerging memories.

REV.NG SRLS UNIPERSONALE | SOFTWARE ENGINEER

Feb 2018 - Present | Milan, Italy

Development of the Qualcomm Hexagon support for the QEMU emulator.

POLITECNICO DI MILANO | SW ENGINEERING LAB MANAGER

Feb 2018 - Present | Milan, Italy

Evaluation and assistance for the final exam of bachelor's students.

POLITECNICO DI MILANO | FORMAL LANGUAGES TA

Sep 2019 - Dec 2019 | Milan, Italy

Teaching students how to create a toy compiler with flex and bison.