Mirco De Zorzi *April 4, 2002*

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EDUCATION

- **I.T.I.S J.F.Kennedy** — PORDENONE, IT
  Diploma in Information Technologies — *2016 - present*

SKILLS

- **Languages**: Assembly (x86 and Cortex ARM), C, C++, Go, Lua, Python, PHP, Javascript, Elisp
- **Other Tools**: Emacs, R.O.S., MongoDB, Prometheus, SQL
- **Administrative Tools**: AWS, Git, Ansible, Docker, Linux, BSD
- **Natural Languages**: : Italian (native), English (proficient), Slovakian (second language)

EXPERIENCE

- **Technological Systems by Moro** — AZZANO DECIMO, ITALY
  Reverse Engineering and Software Development — *June 2019 - August 2019*
    - **Reverse Engineering**: Reverse Engineered stripped firmware for an STM32 microprocessor.
    - **Development**: Developed software components for *simultaneous localization and mapping* and *automated guided vehicles* on the R.O.S. operating system. The backend is written in C++ while the frontend in JavaScript.

- **Advanced Algorithms Summer School** — CA' FOSCARI UNIVERSITY, ITALY
  Course — *July 2019*
  Attended a week-long *advanced algorithms* course at San Servolo International College for students qualified at the 2019 National Olympiad of Informatics. The topics ranged from dynamic programming to greedy algorithms and graphs.

- **Cyber Challenge 2019** — UNIVERSITY OF PADUA AND PISA, ITALY
  Course — *February 2019 - June 2019*
  Qualified at a national programming challenge organized by the C.I.N.I. at the University of Pisa and subsequently attended a 3 months long cybersecurity course at the University of Padua with topics such as: reverse engineering, pwning, web security, and cryptography. At the end of this course participated at a jeopardy CTF hosted by the organizers of the course.

PROJECTS

- **hort (github.com/hort)**: Data mining and indexing framework written in modern C++.
- **loki-cpp (github.com/mircodezorzi/loki-cpp)**: Modern C++ driver for Loki: a log aggregation system.
- **sym**: Process scheduling and memory management tui simulator written in pure C without the use of any third-party libraries.
- **F.N.N.**: Food classification web-service written in Python using Keras and Tensorflow.
- **D.C.F.**: Android application for personal daily carbon footprint tracking written in Java with a PHP + SQL backend.

CERTIFICATIONS

- Cisco *IT Essentials*, Cisco *Introduction to Networks*, and Cisco *Cybersecurity Essentials*

ADDITIONAL EXPERIENCE & ACHIEVEMENTS

- Won the M.I.U.R. prize at the National Robotic Olympics in Genua with a remotely operated drone for environmental data analysis.
- Participated at a series of international open CTFs such as FaustCTF, CincestCTF, and TyumenCTF under the NoPwnIntended team.
- Participated at 3 national Rubik's cube competitions in Milan, Verona (IT) and Bratislava (SK) with a personal best of 18.67 seconds.