# Marco Deano

*Curriculum Vitae*

*Udine - Verona, Italy*
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*06/09/2000*



## Professional Profile

Master's graduate with full marks (110/110 cum laude) in Computer Engineering and Computer Science at the University of Verona, with a bachelor's background in Electronic Engineering (Computer Science and Networks curriculum). During my studies I explored topics such as machine learning, advanced algorithms, parallel programming, cybersecurity, data mining and IoT architectures, developing a cross-disciplinary background oriented towards applied research. I am particularly interested in the optimization of artificial intelligence models, with a focus on pruning and model compression techniques for deep learning, and in performance analysis on GPU architectures and high-performance systems. For my master's thesis I worked on the analysis and optimization of Structured State Space Models (S4/S4D), studying pruning strategies aimed at improving the trade-off between accuracy and performance on GPUs through benchmarking and profiling activities. I also served as a teaching tutor for the Programming Languages and Tools course (C language) at the University of Verona, developing communication and technical support skills. In parallel, competitive swimming practised at national level allowed me to consolidate discipline, determination and a goal-oriented mindset.

## Education and Training

2026 - present **PhD in Engineering for Intelligent Systems**, *University of Verona – Department of Engineering for Innovation Medicine (DIMI)*
Position won through competitive public selection. Starting October 2026.

2023 - 2026 **Master's Degree in Computer Engineering and Computer Science - LM32**, *University of Verona*, Grade: 110/110 cum laude, Supervisor: Prof. Nicola Bombieri
Graduated on schedule. Thesis title: "S4oP: Operator-level Pruning of Structured State Space Models for Resource-Constrained Devices"

2019 - 2023 **Bachelor's Degree in Electronic Engineering (Computer Science and Networks curriculum) - L8**, *University of Udine*, Grade: 104/110, Supervisor: Prof. Andrea Schaerf
Graduated on schedule. Thesis title: "Automatic resolution of a smartphone assembly problem using greedy algorithms in C++"

2014 - 2019 **Upper secondary school diploma**, *I.S.I.S. A. Malignani, Udine*
Scientific Lyceum (Applied Sciences)

## Research Experience

2026 Post-graduate research fellowship. Title: **"Optimization of SSM models for motion analysis software in telemedicine"**, funded within the PREPARE project – "Personalized Engine for Prostate cancer Evaluation". *University of Verona, Department of Engineering for Innovation Medicine.* 01 April 2026 - 20 September 2026

2026 Collaboration on the research project **"A software platform for the intelligent analysis of images and videos for the assessment of axial postural abnormalities in people affected by Parkinson's disease"**, funded by Fondazione Giuseppe Manni (fondazionegiuseppemanni.org) for research in neuroscience E.T.S., with duties as software developer and system integrator. The project is carried out through an interdisciplinary collaboration between the research laboratories of Prof. Nicola Bombieri (Department of Engineering for Innovation Medicine, University of Verona) and Prof. Michele Tinazzi (Head of the Parkinson and Movement Disorders Centre, Department of Neurosciences, Biomedicine and Movement Sciences, University of Verona). *University of Verona.* Since 1 April 2026

## Publications

2026 M. Deano, F. Ziche, N. Bombieri, **"S4oP: Operator-level Pruning of Structured State Space Models for Resource-Constrained Devices"**. Accepted at the 34th IFIP/IEEE International Conference on Very Large Scale Integration SoC (VLSI-SoC 2026). Limassol (Cyprus), 11-14 October 2026.

## Technical Skills

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| Programming Languages | C, C++, Java, Python, CUDA |
| Cybersecurity | Understanding of the fundamental concepts of information security, including Cybersecurity, Network Security, Software Security |
| Machine Learning | Knowledge of the main supervised and unsupervised machine learning algorithms |
| Deep Learning | Experience with PyTorch and with optimization and pruning techniques for deep neural networks, in particular Structured State Space Models (S4/S4D) |
| IoT | Knowledge of the principles of IoT architectures, with particular attention to Embedded Systems, Networked Control Systems, CAN protocol |

## Soft Skills

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| Teamwork | Aptitude for teamwork and collaboration |
| Listening | Excellent active listening skills |
| Precision | Precision and attention to detail |
| Learning | Continuous-learning mindset |

## Languages

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| Italian | Native |
| English | B2 |

## Certifications

2025 KNIME Competency Badge, issued by TALC – *University of Verona*

## Sport

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| Swimming | Competitive swimming practised at national level |

## Useful Links

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| LinkedIn | linkedin.com/in/marco-deano |
| GitHub | github.com/marcodeano |

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