

NITHYA SAMADHI LOKUGE

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Via Luigi Calamatta, 12
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Italy

EDUCATION

Master Course: Interactive Digital Media

Current

Trinity College Dublin - Dublin, Ireland

Relevant Coursework: Authoring for Digital Media; Programming for Digital Media; Visual Computing and Design; Audio, Video & Sensor Technologies; Contextual Media

Bachelor Degree: Sicurezza dei Sistemi e delle Reti Informatiche

September 2019 - July 2024

("Computer Systems and Networks Security")

Università degli Studi di Milano - Via Celoria, 18, 20133, Milano (MI), Italy

- **Results: 99/110**
- *Bachelor Degree Thesis:* "Analisi valutativa e aspetti di sicurezza della piattaforma INTO-CPS per Digital Twin"
("Valuation analysis and security aspects of the INTO-CPS platform for Digital Twin")

Thesis description:

INTO-CPS is an integrated toolchain for model-based design of Cyber Physical Systems (CPSs), enabling collaborative and multidisciplinary engineering. Its developers introduced also a platform called Digital Twin as a Platform Service (DTaaS), facilitating Digital Twins (DTs) creation from reusable assets as well as supporting their full lifecycle. DTs enhance CPSs by providing a virtual representation for improved monitoring, optimisation, and analysis of CPSs. This thesis examines whether INTO-CPS is suitable as a DT platform, analysing how its tools fulfil typical DT platform requirements. In addition, I explore INTO-CPS potential for modelling CPSs attacks and assess the safety of the DTaaS platform.

Thesis supervisor: University Professor Elvinia Maria Riccobene

Thesis co-supervisor: University Professor Chiara Braghin

- *Relevant Coursework:* Computer Programming; Web and Mobile Programming; Computer Networks; Systems and Networks Security; Secure Software Design; Operating Systems; Algorithms and Data Structures; Databases; Computer Architecture; Cryptography; Biometric Systems; New Media Sociology; Economical, Ethical, Social, and Legal Aspects of IT; Computer Forensics; Probability and Mathematical Statistics; Continuous Mathematics; Discrete Mathematics

LANGUAGES

- Italian: mother tongue
- English: C1 (IELTS Academic – 16/03/24)

TECHNICAL SKILLS

- Frontend: HTML, CSS, JavaScript (client-side)
- Databases: MongoDB
- Graphic Design: Adobe Illustrator, Adobe Photoshop, 3DS Max
- Sound Design: Audacity