

NITHYA SAMADHI LOKUGE

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EDUCATION

Master Course: Interactive Digital Media

Trinity College Dublin - Dublin, Ireland

2024 - Current

- *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

("Computer Systems and Networks Security")

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

2019 - 2024

- **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:

This thesis evaluates the suitability of INTO-CPS as a Digital Twin (DT) platform by analyzing how its toolchain meets common DT requirements and investigating its potential to simulate security threats in Cyber-Physical Systems (CPSs). Additionally, the research assesses the overall safety and robustness of the Digital Twin as a Service (DTaaS) environment.

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:** Native
- **English:** C1 (IELTS Academic – 16 Mar 2024)

TECHNICAL SKILLS

- **Front-end:** HTML, CSS, JavaScript, Bootstrap
- **Back-end:** Node.js
- **Database:** MongoDB
- **Design & Multimedia:** Autodesk 3ds Max