

Lucian Dorin **CRAINIC**
Software Development Engineer in Test

 [linkedin.com/in/lucian-dorin-crainic](https://www.linkedin.com/in/lucian-dorin-crainic)  github.com/LucianCrainic  crainic.lucian@gmail.com  +39 3270499569

Software Engineer in Test specializing in *Embedded Systems Testing*, with a **Computer Science** degree. Committed to **continuous learning** and passionate about **driving innovation**. Dedicated to integrating *modern* and *emerging solutions* to improve system performance, reliability, and efficiency.

 EXPERIENCE

ELT Group Jan. 2024 - Present	Software Development Engineer in Test, ROME, Italy ➤ Document and implement <i>Test Plans</i> and <i>Test Cases</i> ensuring compliance with MIL-STD-498 and DO-178C standards. ➤ Design and execute Automated Test Frameworks for Embedded Software in Sensor Systems, using a Python/C++/Robot Framework stack. ➤ Develop CI/CD pipelines using GitLab, Docker and Kubernetes to simplify the testing process and improve software delivery efficiency. ➤ Collaborate with Cross Functional Teams (<i>Software, Firmware, QA</i>) to validate software hardware integration and compliance with stringent <i>Defense Standards</i>. ➤ Create Reusable Test Suites for <i>Electronic Warfare Systems</i>, enabling the use of consistent testing procedures and approaches across different product specializations.
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 EDUCATION

Oct. 2024 - Present	M.Sc. in Computer Science at La Sapienza with a curriculum in Systems and Networking .
Oct. 2020 - Mar. 2024	B.Sc. in Computer Science at La Sapienza with a Thesis in Machine Learning .  github.com/LucianCrainic/bsc-thesis/

 SKILLS

Programming Languages	Python, C++, Bash.
Libraries & Frameworks	Robot Framework, NumPy, Pandas, OpenCV, Scikit-Learn, PyTorch, Boost.
DevOps & Automation	Git, GitLab CI/CD, Docker, Kubernetes, YAML.
Requirements & Project Tools	Jira, IBM Doors, PTC Windchill.
Testing	Test Automation, Unit & Integration Testing, Model-Based Testing, Self-Healing Tests, Coverage Analysis

 PROJECTS

Robot Framework

 github.com/robotframework/robotframework  www.robotframework.org

An Open Source **automation framework** for *Acceptance Testing* and *Robotic Process Automation* (RPA). It uses a keyword driven approach, allowing for easy test case creation and execution. The framework is extensible with libraries implemented in Python or Java, making it suitable for various testing needs. Active as a *contributor* to the project, improving its capabilities and features. Participated to the *Robot Framework Robocon 2025* in Helsinki, Finland representing ELT Group.

Python Automation Framework RPA Acceptance Testing

Jarvis : Personal Moodle Exam Assistant

 github.com/struggling-student/Jarvis

An **automated tool** developed using Python and Selenium, designed to answer questions on the *Moodle platform*. The tool can identify and answer questions that it has previously encountered. If it encounters new questions during a quiz, it has the capability to download and store them for future use. This ensures that over time, it becomes more knowledgeable about the questions in the quizzes.

Python Selenium OpenCV Scikit-Learn Pillow

Tiny-ViT : Lightweight Vision Transformer for Efficient Image Recognition

 github.com/struggling-student/Tiny-ViT

Developed a compact **Vision Transformer (ViT)** model optimized for efficiency, balancing performance and computational cost. Implemented and trained Tiny-ViT for *image classification tasks*, leveraging model pruning and quantization techniques to enhance deployment on edge devices.

Computer Vision Deep Learning PyTorch TensorFlow Scikit-Learn

 ABOUT ME

- **Languages** : Italian (Mother Tongue), English (C1), Romanian (Mother Tongue).
- **Interests** : Sports (Running, Cycling, Trekking), Nature and Urban Photography.