CONTACTS

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La Spezia, Italy

SOFT SKILLS

- Teamwork
- Time management
- Problem-solving
- Planning

HARD SKILLS

- C, C++, C#, Python, Java
- Web development: HTML, CSS, JavaScript
- Pytorch, Tensorflow, Scikit-learn
- Kaggle, Google Colab, Jupyter
- Unity
- Google ARCore, Vuforia
- Project management: Agile methods
- Photoshop

EDUCATION

M.SC. IN ARTIFICIAL INTELLIGENCE University of Pisa | 2020 - Ongoing

B.SC. IN COMPUTER SCIENCE University of Pisa | 2014 - 2020

CERTIFICATES

TRAINING COURSE IN GAME DESIGN University of Pisa | 2021

LANGUAGES

ITALIAN - NATIVE ENGLISH - B2

EVENTS

GMTK GAME JAM 2023 IF GAME JAM 2019 GLOBAL GAME JAM 2019

MICHELE MORISCO

GAMEPLAY/AI/AR PROGRAMMER

Final year student in Artificial Intelligence and Machine Learning with a 26.75 grade-point average and is working on the thesis. In free time, develop an indie game as a lead programmer. Good communication skills, problemsolving, and teamwork acquired over the years with 10+ academic and personal projects and with three Game Jams.

PROJECTS

Thesis - Recovering Physical Prop

SUN aims to investigate and develop Extended Reality solutions. My thesis focuses on recovering physical properties from props, developed with the Visual Computing Lab of CNR-Pisa and the School of Advanced Studies Sant'Anna. Currently, I'm preparing the environment for the experiments.

- Modeled a 3D box as a tester using OpenSCAD.
- Created a tool in C++ using QT Creator and OpenCV library to calibrate cameras, measure an object position according to camera images, and compute the mass

Playing retro games with Dueling DQN

"Intelligent Systems for Pattern Recognition" course's project.

- Learned to use OpenAl Gym and the **Reinforcement Learning** principles. Achieved about 130% of the score compared to DQN scores for the Boxing game.
- Implemented different **DQN** versions such as **Dueling DQN** for learning an agent how to play some Atari and NES games over 2 months.

Cubic stylization: Improving mesh quality

"3D Geometry Modeling and Processing" course's project.

- Implemented a new plugin for MeshLab with C++ over 2-months. Successfully delivered on Visual Computing Lab's git and currently, it is present in the last official
- Using Qt Creator to develop the plugin.

PokéBusters

"Human-Machine Interaction" course's project. An augmented reality web

• Designed and developed autonomously the minigame in HTML and JavaScript using the Three.js library over 3-weeks.

Hisuian Tales

Lead programmer

- Designed a **2D platform** game in a 2-person team over 3 months. Successfully delivered on Itch.io. The game recognizes a specific drawn symbol to give a temporary power to the player for overcoming the obstacles.
- Addressed each **technical aspect** of the game using **Unity**, from the player's movement to the enemys' Al. Before, it used the \$Q Recognizer algorithm to recognize the symbols, and then now the system is using a CNN
- Worked on the level and game design, defining the puzzles and challenges.

Judith

Lead programmer

- Designing a 2D puzzle and procedural narrative game with platforming elements in a 3-person team. Currently in progress with a first playtest success
- Addressing each technical aspect of the game using **Unity**, from the player's movement to the NPCs' Al, such as the NPCs' navigation system and the dialogue system.
- · Designing an AI model that recognizes a user textual prompt.
- Working on the level and game design, defining a Game Design Document.