Aurora Zabot

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Education

Experis Academy
Remote, IT

CLOUD PLATFORM ENGINEERING — *November 2020 - December 2020*

- Intensive Professional Training Course
- **Topics:** Design, planning, protection of IT infrastructure using Active Directory;
  Manage tools related to Azure, PowerShell, SQL Database and VMware;
  Backup, disaster recovery and security management.

University of Padua
Padua, IT

MASTER DEGREE IN ICT FOR INTERNET AND MULTIMEDIA, MULTIMEDIA CURRICULUM — *2018 - 2020*

- **Thesis:** Three-Dimensional Look-Up Table Optimization for High Dynamic Range (HDR) and Wide Color Gamut (WCG) Color Processing
- **Supervisor:** Giancarlo Calvagno
- **Co-supervisor:** Stefano Andriani
- **Final grade:** 110L

Alpen-Adria Universität
Klagenfurt, A

MASTER DEGREE IN INFORMATION AND COMMUNICATIONS ENGINEERING — *2019 - 2020*

- **Erasmus+**, semester abroad, 5 months

University of Padua
Padua, IT

BACHELOR DEGREE IN INFORMATION ENGINEERING — *2015 - 2018*

- **Thesis:** Markov analysis of ARQ techniques applied to Energy Harvesting Devices
- **Supervisor:** Leonardo Badia
- **Final grade:** 97

Publications

3D-LUT Optimization for Hign Dynamic Range and Wide Color Gamut Color Processing
Electronic Imaging 2021
26-th January 2021

- **Authors:** S. Andriani, A. Zabot, G. Calvagno, JD Vandenberg
- **Publisher:** Society for Imaging Science and Technology
- **Award:** 2021 Award for the First Submission to the Conference

Experiences

Discovery Reply
Milano, IT

IT MULTIMEDIA CONSULTANT, BACKEND DEVELOPER — *February 2021 - Ongoing*

- Main languages used: Java, PHP, basics of HTML and CSS
- Spring Boot projects integrated with AWS cloud services

University of Padua, Collab. Arnold & Richter Cine Technik GmbH (ARRI)
Pedavena (due to Covid19), IT

TRAINER STUDENT — *March 2020 - September 2020*

- **Research activity:** Optimization of 3D-LUTs for High Dynamic Range and Wide Color Gamut environments

Casa De Bacco
Pedavena, IT

CASHIER — *Summer 2013 - 2015*

- Cashier in a family-run small supermarket

Volunteering

ULSS1 Dolomiti
Feltre, IT

Peer Educator
2013 - 2015
- Instruct in different schools the main concepts related to problems and risks regarding the abuse of alcohol, drugs and general addictions

Projects

Automatic Gaze Estimation
- **Course:** Computer Vision
- **Language:** C++
- **Description:** the main aim of the project was to recognize gaze and where it pointed; bonus: color of iris recognition
- **Techniques employed:** Haar/LBP Cascade, K-Means, Thresholding, Canny Edge Detection, Hough Circle Transform

Machine Learning models for Disease Prediction
- **Course:** Practical Introduction to Neural Networks and Deep Learning
- **Language:** Python
- **Description:** breast cancer identification from biopsy-images
- **Techniques employed:** Data Augmentation, Pre-Trained Neural Network (DenseNET201), classical refining techniques in deep learning

Image coding with a JPEG-like approach
- **Course:** Source Coding
- **Software:** MATLAB
- **Description:** realization of a compression algorithm that emulates the JPEG-approach
- **Techniques employed:** Huffman Coding and Decoding, DCT, Color Space conversions, Dictionary Zig-Zag Compression, Runlength Encoding and Decoding

Skills

Languages	Italian (C2), English (Advanced B2, Badge)
IT Languages	Matlab (Good), Python (Discrete), C++ (Discrete), Java (Discrete), PHP (Basic), HTML and CSS (Basic), SQLite/PosgreSQL (Basic), Git/GitHub (Good), Microsoft 365 (Good), Azure Fundamentals (Certified, Badge)
Soft Skills	Skills as problem solving and team working developed during my academic record; reliability in terms of dedication, meticulousness and punctuality, due to my disposition; flexibility and adaptability, proved during my Erasmus period; learning speed and organization abilities, tested during my academic career, in particular during project development; competitiveness, determination, creativity and passion dictated by my nature, that determine the ability to engage people; really focused on my objectives.

Interests

Multimedia
- Everything related to culture, like visual art, cinema, music, books and video games
- From an engineering point of view, as augmented reality, computer vision and image/video/audio processing

Science and Data Science
- Passion of astronomy, engineering and medical field, with particular focus in emerging technologies and to their impact on everyday routine
- Particular interest in machine and deep learning, considering this field as a great opportunity of improvements for everyday life

Information and Management
- Everything that is related to the information field, as politics, economy and news/scientific disclosures
- Particular interest in project management and optimization processes

Date:
17.04.2021