Aurora Zabot

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Education

Experis Academy	*Remote, IT*
CLOUD PLATFORM ENGINEERING	*November 2020 - Ongoing*

- 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

Manor Courses Ltd	*Brighton, UK*
BRIGHTON SUMMER SCHOOL	*Summer 2014*

- **Description:** advanced English class, level B2

University of Exeter	*Exeter, UK*
EXETER SUMMER SCHOOL	*Summer 2011*

- **Description:** advanced English class, level B1

Liceo G. Dal Piaz	*Feltre, IT*
TRADITIONAL SCIENTIFIC HIGH SCHOOL	*2010 - 2015*

- **Final grade:** 91

Experiences

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

Rete degli Studenti Medi   *Feltre, IT*

TUTOR   *2012 - 2015*

- Tutoring younger students in subjects like Math, Science and English

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)
IT Languages	Matlab (Good), Python (Good), C++ (Discrete), Java (Basic), HTML and CSS (Basic), SQLite (Basic), Git/GitHub (Good), Office (Good)
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: **09.11.2020**