

# Aurora Zabol

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## Education

### Experis Academy

CLOUD PLATFORM ENGINEERING

- 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.

Remote, IT

November 2020 - December 2020

### University of Padua

MASTER DEGREE IN ICT FOR INTERNET AND MULTIMEDIA, MULTIMEDIA CURRICULUM

- **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

Padua, IT

2018 - 2020

### Alpen-Adria Universität

MASTER DEGREE IN INFORMATION AND COMMUNICATIONS ENGINEERING

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

Klagenfurt, A

2019 - 2020

### University of Padua

BACHELOR DEGREE IN INFORMATION ENGINEERING

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

Padua, IT

2015 - 2018

### Manor Courses Ltd

BRIGHTON SUMMER SCHOOL

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

Brighton, UK

Summer 2014

### University of Exeter

EXETER SUMMER SCHOOL

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

Exeter, UK

Summer 2011

### Liceo G. Dal Piaz

TRADITIONAL SCIENTIFIC HIGH SCHOOL

- **Final grade:** 91

Feltre, IT

2010 - 2015

## Experiences

### University of Padua, Collab. Arnold & Richter Cine Technik GmbH (ARRI)

TRAINER STUDENT

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

Pedavena (due to Covid19), IT

March 2020 - September 2020

### Casa De Bacco

CASHIER

- Cashier in a family-run small supermarket

Pedavena, IT

Summer 2013 - 2015

## Volunteering

## ULSS1 Dolomiti

PEER EDUCATOR

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

Feltre, IT

2013 - 2015

## Rete degli Studenti Medi

TUTOR

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

Feltre, IT

2012 - 2015

## Projects

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### 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

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<b>Languages</b>	Italian (C2), English (Advanced B2)
<b>IT Languages</b>	Matlab (Good), Python (Discrete), C++ (Discrete), Java (Basic), HTML and CSS (Basic), SQLite (Basic), Git/GitHub (Good), Microsoft 365 (Good), Azure Fundamentals (Good)
<b>Soft Skills</b>	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

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### 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

In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.

Date:

21.12.2020

