

Education

Queensland University of Technology

CSIRO

PhD Student

Topic: *3D Surface Reconstruction of Wounds, NeRF, SDF*

Brisbane, Australia

Canberra, Australia

Feb-23 – Feb-27

KTH Royal Institute of Technology

University of Trento

EIT Digital – Double Master's Degree in Visual Computing Communication – 110 cum laude/110 Sep-20 – June-22

Thesis: *Sub-frame Synchronisation and Motion Interpolation for Panoramic Video Stitching*

Coursework: Signal Processing, Computer Vision, Recognition Systems, Image Forensics, Computer Graphics

Stockholm, Sweden

Trento, Italy

University of Trento

Bachelor's Degree in Information and Communications Engineering – 100/110

Thesis: *Tennis Player Analysis – Bio-mechanical Model and Computer Analysis*

Coursework: Signal Processing, Electronics, Electromagnetic Waves, Computer Vision, Statistics/Probability

Trento, Italy

Sep-17 – Sep-20

Experience

Tracab

Junior Computer Vision Developer - Freelancer

Stockholm, Sweden

Nov-21 – Nov-22

- Comparison of video encoding standards H264-H265 for systems upgrade
- FFMpeg and OpenCV to assess the accuracy of qualitative, perceptual, and tracking systems (DLLs building)

EVCO S.p.a.

Electronics Intern

Sedico, Italy

May-16 – July-16

- Spreadsheet softwares and manual duties
- Electronic components soldering and computer tasks

Projects

Analysis and Search of Visual Data

Sep-21 – Oct-21

- Image feature matching, hierarchical tree search, image classification
- SIFT, SURF, TF-IDF, CNN were some of the methods used

Skeletal Animation

Nov-20 – Jan-21

- C++ game engine for skeletal animation
- JSON pose information files and OpenGL libraries were used

Image Forensics lab

Sep-20 – Nov-20

- Forensic digital watermarking in MATLAB
- Analysis focused on embedding quality and robustness methods

Mouse and VGA drivers

June-18 – Nov-18

- VHDL mouse and VGA drivers for FPGA
- The project was developed on a Nexys-4 ddr board

Additional Information

Achievement: EIT Digital Master School Scholarship

Technical skills: C++, OpenCV, Python, MATLAB

Language: Italian (native), English

Interests: Climbing and mountain sports – applied for the alpine rescue team, football – several years of playing, motorcycles

Website: remichierchia.github.io