Federico Favia
Computer Vision MSc Graduate

ABOUT me

I am passionate about technology and innovation, but especially visual data. I love working hard within a team, improving each other and learning new skills to overcome difficulties. In particular I believe that contamination of different backgrounds is fundamental to boost my future career. I am currently looking for a challenging position in computer vision field.
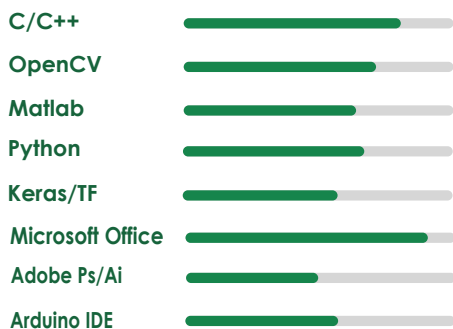
CONTACTS

- 04.11.1994, Mantova (Italy)
- +39 3465759669
- Italy (open to relocate)
- federic.fav@gmail.com
- federico-favia
- Github
- Portfolio

LANGUAGES

- English B2 (FCE Cambridge)
- Italian (Mother tongue)

SOFTWARE SKILLS

- C/C++
- OpenCV
- Matlab
- Python
- Keras/TF
- Microsoft Office
- Adobe Ps/Ai
- Arduino IDE

PERSONAL SKILLS

- TEAM WORK
- CREATIVITY
- PROBLEM SOLVING
- PUBLIC SPEAKING

EXPERIENCE

Computer Vision Engineer Intern & Master Thesis
27.01.2020 - 01.07.2020

MANOMOTION AB, STOCKHOLM
"Real-time hand segmentation using deep learning": Computer Vision and Deep Learning research project about segmentation of hands to improve AR hand tracking technology developed by ManoMotion. Implementation and evaluation of different architectures in Keras and Tensorflow, especially testing if they are feasible for constrained mobile smartphone deployment.

Computer Vision Student Intern & Bachelor Thesis
23.04.2018 - 23.07.18

XTENSA SRL, TRENTO
Realistic computer vision project through C/C++ programming and use of libraries for image and video processing, as OpenCV. Convolutional neural networks approach, in particular YOLOv3, state-of-the-art real-time object detection system. Implementation and validation of a detection and tracking system about soccer players.

EDUCATION

KTH & University of Trento EIT Digital Academy
2018 - 2020

MSc, DOUBLE DEGREE PROGRAMME VISUAL COMPUTING AND COMMUNICATION INNOVATION AND ENTREPRENEURSHIP
2nd and last year at **KTH**, Stockholm, as **exit** university with MSc, Electrical Engineering. Specialisation in Mobile Visual Computing. It is a two-year double (**joint**) degree master programme, coordinated by the **EIT** Digital Master School with a **Major** in **Visual Computing Communication**, and a **Minor** in **Innovation & Entrepreneurship**. Previously **entry** university **Trento** with MSc, Information and Communications Engineering. Final thesis project in company "*Real-time hand segmentation suing deep learning*", relevant courses: Computer Vision, Pattern Recognition, Visual Data

University of Trento (Italy)
2015 - 2018

BSc, INFORMATION AND COMMUNICATIONS ENGINEERING, 105/110
Final Thesis project: "*Convolutional Neural Networks' use for detection and tracking of players in sport events*", developed after the internship at **Xtensa Srl**. Relevant Elective courses: **Image Processing and Transmission**, Biomedical Diagnostic Techniques and Remote Sensing. Additional project: **ELEDIA ETRP Talented**: Basic laboratory course of Electromagnetic Field Simulators (FEKO, CST, COMSOL, ANSYS FHSS), Trento, 2017

Scientific Lyceum "Enrico Fermi", Mantova (Italy)
2010-2015

SCIENTIFIC HIGH SCHOOL, 100/100
Additional project: Certificate "**Rotary Youth Leadership Awards (RYLA)**", Albarè di Costermano, 2013

PROJECTS

- **WINNERS "HACK FUTURE OF SME BANKING"**
Budapest, Ultrahack & EIT Hackhaton won in Budapest with my team to improve OTP E-biz platform, December 2019

- **STARTUP LAB TRENTO**
Clab Trento, Februay 2019 - May 2019 Business Development Laboratory Our team arrived in the finals with our IOT safety device for mountain bikers (awarded with best IoT project and best entreprenurial project of the year)

- **COMPUTER VISION and IMAGE PROCESSING projects**
  - Naval Traffic's Estimate in Venice
  - SIFT/SURF features for Image matching
  - Vocabulary Tree for Visual Search System
  - Edge Detection, Hough Transform and Object Segmentation
  - DCT and FWT Image Compression

CERTIFICATES

- **HELSINKI EIT SUMMER SCHOOL**
Aalto University, Disrupting retail Digitalization, Growth, and User Engagement, August 2019

- **BEST IoT PROJECT**
Startup Lab Demo Day, Coaching session Award by KMB Lab Trento for best IoT product, May 2019

- **HUAWEI FUTURE SEEDS**
Top-10 Tech University Talents selected by Huawei Italy, November 2020