

# 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.

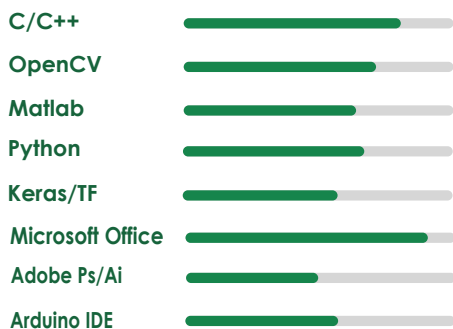
### CONTACTS

- 04.11.1994, Mantova (Italy)
- +39 3465759669
- 9B, Strada del Corriere, Borgo Virgilio
- federic.fav@gmail.com
- federico-favia
- Github
- Portfolio

### LANGUAGES

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

### SOFTWARE SKILLS



### PERSONAL SKILLS



### 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 to test if they are feasible for constrained mobile smartphone deployment.

#### Computer Vision Intern & Bachelor Thesis

23.04.2018 - 23.07.18

#### XTENSA SRL, TRENTO (ITALY)

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 - Present

#### MSc, DOUBLE DEGREE PROGRAMME VISUAL COMPUTING AND COMMUNICATION INNOVATION AND ENTREPRENEURSHIP

2nd and last year at KTH, Stockholm, as exit university. 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

#### 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 HFSS), Trento, 2017

#### Liceo Scientifico Scienze Applicate "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, 06.12.19 - 08.12.19  
Ultrahack & EIT Hackathon won in Budapest with my team to improve OTP E-biz platform
- STARTUP LAB TRENTO**  
Clab Trento, February 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 entrepreneurial 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 DIGITAL SUMMER SCHOOL**  
Aalto University, 04.08.2019 - 16.08.2019  
Disrupting Retail - Digitalization, Growth, and User Engagement
- BEST IoT PROJECT**  
Startup Lab Demo Day, 29.05.2019  
Award by KMB Lab Trento for best IoT product: coaching session by local startup KissMyBike