



# Federico Favia

Computer Vision MSc Graduate

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**Born:** 04.11.1996, Mantova, Italy  
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**Contacts:** [LinkedIn](#) - [Portfolio](#) - [Github](#)  
**Languages:** **English B2** (FCE Cambridge), **Italian** (Mother Tongue)

## WORK EXPERIENCE

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- ManoMotion AB, Stockholm, Sweden** Jan-Jul 2020  
**Computer Vision Engineer Intern**  
Deep Learning research project about hand segmentation to improve real-time AR hand tracking technology. Implementation and evaluation of different architectures in Python, Keras and Tensorflow.
- Xtensa SRL, Trento, Italy** Apr-Jul 2018  
**Computer Vision Student Intern**  
Realistic computer vision project in C/C++ and OpenCV. Convolutional neural networks approach, as YOLOv3. Implementation and validation of a detection and tracking system about soccer players.
- Organismo Mediazione Forense, Ordine Avvocati Mantova, Italy** Jun 2014  
**Archive Management Student Intern**

## EDUCATION

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- KTH Royal Institute of Technology, Stockholm, Sweden - A** 2018-2021  
*Double Degree MSc, Electrical Engineering - ICT Innovation*
  - Final thesis project at company “Real-time hand segmentation using deep learning”
  - Exit University of EIT Digital Academy, Specialisation in Mobile Visual Computing
  - Courses in Computer Vision, Visual Data Analysis, Video Processing
- University of Trento, Italy - 110/110 with honours** 2018-2021  
*Double Degree MSc, Information and Communications Engineering - ICT Innovation*
  - Entry University of EIT Digital Academy in Visual Computing Communication: courses in Pattern Recognition, Computer Graphics, Multimedia Security
  - Minor in Innovation & Entrepreneurship, School of Innovation CLAB Certificate
- University of Trento, Italy - 105/110** 2015-2018  
*BSc in Telecommunications Engineering*
  - Final thesis “Convolutional Neural Networks’ use for detection and tracking of players in sport events”

- Relevant courses in Image Processing and Transmission, Biomedical Diagnostic Techniques, Remote Sensing and ELEDIA ETRP Talented for Electromagnetic Field Simulators
- Winner of Merit Prize for final GPA

## **Scientific High School “E. Fermi” Mantova, Italy - 100/100**

2010-2015

*Scientific Gymnasium of Applied Sciences*

- Courses in Mathematics, Computer Science, Physics, Chemistry, Philosophy
- Winner of Scholarship for Best Graduate Students

## **PROJECTS**

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### **Winners “Hack Future of SME Banking”**

Dec 2019

*Budapest, Hungary*

Ultrahack & EIT FinTech Hackathon won with my team to improve OTP bank’s E-biz platform.

### **Startup Lab Trento**

Feb-May 2019

*CLAB Trento, Italy*

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 Projects (C++, Python, Matlab)**

2018-2020

*Stockholm & Trento*

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, Image Compression.

## **CERTIFICATES**

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- **Huawei Seeds for the Future:** Top-10 Tech University talents selected by Huawei Italy, Nov 2020
- **Helsinki EIT Summer School:** Aalto University, Disrupting retail - Digitalization, Growth, and User Engagement, Aug 2019
- **Best IoT Project:** Coaching session Award by KMB Lab Trento for best IoT product during Startup Lab Demo Day, May 2019

## **SKILLS**

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- **Computer Science Skills:** Proficient in C/C++ and OpenCV, Familiar in Python, TensorFlow, Keras, Matlab and Arduino IDE. Fluent in Microsoft Office and familiar with Adobe Illustrator/Photoshop.
- **Personal Skills:** Strong team-working and problem solving inclination, Creative person, Passionate about Computer Vision Problems, Fascinated by Cinema and Sport Industries.

## **VOLUNTEERING**

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**EIT Digital Student Ambassador**, 2020-2021: giving counsel to future prospective students.