

Matteo Ciprian

Telecommunications Engineer

I am a specialized TLC Engineer in Signal Processing and Wireless Sensors Networks with a strong interest in AI and Machine Learning. I'm not looking only for a job but I'm searching an opportunity to express my self and my talent.



mat.cip43@gmail.com ✉

+39 334 59 67 147 📞

Via Fratta n 38/1, 35014 Fontaniva (Italy) 📍

linkedin.com/in/matteo-ciprian-ba30ab122 in

github.com/MatCip 🐙

medium.com/@mat.cip43 📝

WORK EXPERIENCE

Intern

INFN-Italian Institute of Nuclear Physics [🔗](#)

06/2012 – 07/2012

Legnaro(Padua), Italy

LNL : One of the Most important italian laboratories of physics

- Studying and developing a software for simulating "particle accelerators" .

Research Intern

Reply Spa (Healthy Reply) [🔗](#)

09/2018 – 01/2019

Milan, Italy

Digital Healthcare and Telemedicine

- Developing a software for detecting anomalies in Activities of Daily Living of a patient monitored in a Smart Home Scenario. Article on Medium [🔗](#)

AI Software Developer - External Collaborator

Sensoria [🔗](#)

04/2019 – 07/2019

Seattle, USA

Smart Tissues

- Remote Collaboration: Developing an AI framework for Anomalies Detection on pressure sensory signals

AI/ iOS Software Developer

D-eye [🔗](#)

05/2019 – 07/2019

Padua, Italy

Portable Ophthalmoscope for retina and eye scanning

- Developing an AI framework for Glaucoma Detection.

Contact: Alberto Scarpa

Sensors Fusion Engineer

Focal Point Positioning [🔗](#)

10/2019 – 07/2019

Cambridge, UK

GPS and Motion Tracking Systems

- Sensors Fusion Engineer.

PROGRAMMING SKILLS

MatLab

Java

C++

Python

HTML

GUI programming

SQL and Database

SOFT SKILLS

Project Management

Team Working

Problem Solving

Writing Scientific Papers

Innovative Thinking

Time-management

Agile Methodologies and Scrum

EDUCATION

Bachelor's Degree in ICT Engineering University of Padua

10/2013 – 09/2016

- Telecommunication science
- Electronics
- Objects Programming
- Automation

Exchange Program at EPFL

École polytechnique fédérale de Lausanne

08/2017 – 07/2019

- Digital 3D Geometry Processing
- Movement Analysis
- Biosensors

Master of Science in Telecommunications Engineering University of Padua

09/2016 – 04/2019

- Signal-Processing
- Wireless Communications
- Telemedicine
- Computer Vision

TECHNICAL SKILLS

Signal Processing

Filter Designing, Time-Frequency Analysis, Kalman Filtering, Sensors Fusion, Control Theory, Biomedical Signal Processing

Computer Vision

Image Processing, Image Filtering , Video Processing, Object Detection, 3D Mesh Processing, Convolutional Neural Networks

Machine Learning

Regression, Classification, Model Selection, Features Augmentation, Deep Learning

Wireless Communications

Wireless Channel Modelling, 802.11, TCP/IP Networking, IoT Protocols, Markov Chains, Antennas

Hardware Technologies

Biosensors, Analog Electronic and Circuit Design, Digital Electronic

LANGUAGES

Italian

Native or Bilingual

PROJECTS

Movement Analysis: " A graphical user Interface for movement analysis " (09/2017 – 07/2019)

- EPFL-Laboratory of Movement Analysis : <https://www.overleaf.com/read/rhxmbbdjcgpd>

Computer Vision: " Drone Panoramic- A comparison between two methods " (06/2017 – 07/2017)

- https://github.com/MatCip/Drone_panoramic

Image Processing: " Road Segmentation " (09/2017 – 01/2018)

- https://github.com/MatCip/LMO_ML

" A Comparative Study of Different Deep Learning Architectures for Human Activity Recognition " (03/2018 – 07/2018)

- Human Activity Recognition: https://github.com/MatCip/HDA_project

Brain Computer Interface: " Thought Recognition through EEG signals " (03/2018 – 07/2018)

- Project in collaboration with the famous Neuroscientist Niels Birbhaumer

Wireless Channel Simulation with Jake Simulator (12/2016 – 08/2017)

- https://github.com/MatCip/Simulation_wireless_channels.git

" Anomaly Detection techniques for Smart Assisted Living using environmental sensors " (09/2018 – 04/2019)

- Behavioral Monitoring and Understanding in Smart Home

SOFTWARES & FRAMEWORKS

Anaconda Environment

Spyder, Jupyter

Matlab Framework

Filter Design, Guide, App Designer

Visual Studio

C++ Programming and .NET integration

SQL Developer

Database and SQL

XCode

CoreML environment, App Design

CST Software

Antenna design, Biophotonics simulation

NS3- Network Simulation 3

Software for Network Simulation

Google Cloud ML Engine

Machine Learning Applications in Cloud

PUBLICATIONS

Divulgation

"Ticuro Reply, the new frontier in Telemedicine" [↗](#)

Author(s)

Matteo Ciprian, Healthy Reply

09-01-2019

Medium

Article about my project on Smart Assisted Living

LANGUAGES

English

Expert

French

Beginner

Spanish

Beginner

REFERENCES

Professor Neals Birbaumer [↗](#)

"See References attached below this document"

niels.birbaumer@uni-tuebingen.de

Professor Kamiar Aminian [↗](#)

"See References attached below this document"

kamiar.aminian@epfl.ch

Dr. Carlo Roncolato [↗](#)

"See References attached below this document"

carlo.roncolato@lnl.infn.it

EXPERIENCES ABROAD

Dublin (09/2015 – 10/2015)

Two months in Dublin – 3 weeks of intensive english course at CES School

Lausanne (08/2017 – 02/2017)

Winner of an international scholarship (SEMP)

Cambridge , UK (10/2019 – 07/2019)

Job Relocation

COURSES AND CERTIFICATES

IELTS (English Proficiency) (12/2016)

Score: 6.5

"Il cielo come laboratorio"

(09/2011 – 01/2012) [↗](#)

Advanced Astrophysics course for high-school

Progetto Lauree Scientifiche

(01/2012 – 05/2012) [↗](#)

Laboratory course on designing a Graetz-Cell.

Galileo's Festival Innovator

(06/2014 – 06/2014) [↗](#)

Seminar for excellent students about "Innovation".

Start-up Grind London (06/2019) [↗](#)

Conference about Start-ups and innovation

HealthTech Summit (06/2019) [↗](#)

Lausanne

INTERESTS

Playing Saxophone

Fitness

Innovation

Quantum Physics