Luca Ciucci

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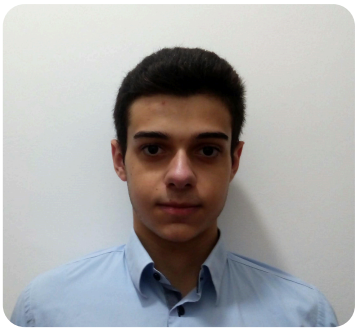


Main Interests

- **Physics**
- **Math**
- **Programming**
  - languages:
    - `Rust`
    - `C++` & `C` (and some popular build systems like `CMake`, `make`, `Visual Studio`)
    - `Matlab`
    - `TypeScript` & `JavaScript`
    - `HTML` & `CSS`
    - `Typst`
    - `Python`
    - `prolog` (just yet fluent in it)
    - `Fortran`
    - `LabView`
    - `LaTex`
    - `Java`
    - `Pascal`
    - `PIC Basic`
  - systems: **Desktop**, **Microcontrollers**, **Embedded**
  - technologies: **3D reconstruction**, **Quaternions**, **Differentials**, **Numerical Optimization**, **image processing**, **camera calibration**, **Neural Networks**, **GUI**
- **Electronics**: some very basic knowledge, worked mainly with prebuilt boards
- **Mechanics**: many manual tools, **CNC machines** (+ **G-CODE** & **CAM**), **3D printing**

Work Experience

Software developer @ BUGSENG s.r.l.

Since 2024/09

research and development @ Scanny3D s.r.l.

- software developer
- algorithm developer, mainly for 3D reconstruction
- electronics and mechanics experience
- 3D printing experience

Publications

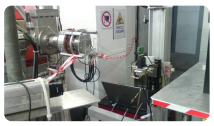
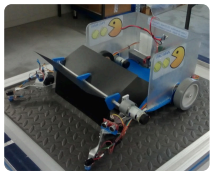
1. P. Francavilla, M.R. Felici, E. Cisbani, et al, *"A low-cost Cherenkov detector to be tested in CERN's T9 beam line"* (2018)

Education

17/9/2018 - now	**University of Pisa** Stared my studies in physics course L-30
17/7/2017 - **21/7/2017**	**Ducati "Fisica in moto" summer school** Attended some lesson on mechanics, physics laboratory, motorbikes mechanical development, production, data analysis and cooperative problem solving.
26/6/2017 - **1/7/2017**	**"Modern Physics for students" summer school** Attended some physics courses with particular emphases on both classical and modern physics introduction. Laboratory experiences on measurements and computing.
xx/3/2017	**IPPOG International masterclass 2017** Attended some courses on high energy particle accelerator physics at the LNF INFN laboratories. Particularly interested on accelerating technologies and tracing detectors. 
4/6/2018	**Cambridge English First Certificate** English level B2.
2013 / **2018**	**Scientific high school diploma** Applied science section, 100/100 score. 

Educational projects

6/6/2023	**"Learning by doing" competition winners** We created *Body Tracking Web* and *VDU posture monitor* software to help people improve their posture while working at a video terminal. We won the competition and we are now working on the project to make it a real product.
17/12/2019	**"ASML Intergalactic Coding Challenge" winner** I was a Winner of the ASML Intergalactic Coding Challenge 2019. 
20/9/2017 - **2/10/2017**	**CERN's days as BL4S winners** Two week experience at CERN, performing tests on the beam of T9 beam facility with the proposed and built Cherenkov detector. I was particularly involved in the detector design, construction and testing, data analysis and electronics. • http://www.tco-beamline.com/ • https://beamline-for-schools.web.cern.ch/editions/2017-edition • articolo INFN 
22/9/2016	

	LNF (INFN) Performed some experiments with the Cherenkov detector of the 2016 BL4S proposal on one of the Frascati INFN's LINAC's beam (BTF).	
2017	**"Olimpiadi della robotica"** Participated with the "*pac-man*" project for which I built the most of the robot and all the firmware.	
2016	**First BL4S proposal** Participated in the first group of the school project of a Cherenkov effect detector proposal for the 2016 CERN BL4S competition.