

BIOGRAPHICAL SKETCH			
NAME Dr. Antonio Trabalza		ACTUAL POSITION Freelance Full Stack developer & consultant	
https://github.com/antoniotrkdz antoniotrabalza@gmail.com MOBILE +393204516210			
QUALIFICATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(S)	FIELD OF STUDY
Founders & Coders	London Curriculum	2017	Full stack development
Imperial College London	Course	2015	C for Science
NIMR London - MRC	Course	2014	Successful Grant Writing
Imperial College London	License	2010	ASpA Personal License
“Sapienza” University of Rome	PhD	2006-2009	Neuroscience
“Sapienza” University of Rome	BA	1999-2005	General and Experimental Psychology

About

I am a developer with Neuroscience research experience. I am passionate about Science and Technology, and I love the free software world: GNU/Linux OS (Devuan & Void) – (Neo)Vim. I am passionate Blockchain and Artificial Intelligence.

I write Java EE, I know Spring (boot) and Node.js. I use React on front-end.

I also love to use Containers and Virtual Machines, and I have fun with circuits and components making IoT and embedded projects (Arduino and Raspberry Pi).

Skills

Programming Languages – Github: [antoniotrkdz](https://github.com/antoniotrkdz)

- Node.js – Express.js, Hapi.js.
- Java EE, Spring (boot).
- SQL – PostgreSQL, MSSQL, MySQL, SQLAnywhere.
- Javascript ES6, HTML5 and CSS3.
- C and Arduino prototyping.
- Python and Raspberry Pi prototyping.
- R statistical analysis.
- OpenSCAD (3D object design and printing).
- FIJI/ImageJ2 Macro Language for microscopy image analysis & pattern recognition (see <https://antoniotrkdz.github.io>).

IT/ System Administration

- Gnu/Linux Operating System.
- Shell (bash) scripting.
- Ubuntu, Debian, Gentoo, Fedora, CentOS and Devuan systems deployment and administration, Desktop and Server.
- VirtualBox and Qemu/KVM virtual machines deployment and administration.
- Docker Containers.
- Good knowledge of computer hardware (building and configuring).
- Good knowledge of Electronics.

Interpersonal, Planning and Problem solving

- Presentation of Research findings in international journals, at conferences and regular Laboratory and Department meetings, both in written and oral forms.
- Managing, planning and reporting of my own work and supervised students.
- Management of internal and external collaborations.
- Design and planning of novel experiments to overcome problems related to PhD and Post Doc research activities.
- Management of Research funds.

Current Projects:

Since October 2022:

Part-time Blockchain consultant and developer on Palmù: an early stage startup with social relevance and goals.

Since June 2020:

Part-time Project manager & Developer on ASTRA: a project funded by the Italian Ministry of development (MiSE) "Fabbrica Intelligente" framework. It is an advanced training system that uses Blockchain to certificate accomplishments and qualifications.

Companies involved are:

4DLabs: Immersive Simulators, Virtual and Augmented Reality used to train people in hazardous environments – <https://www.4dlabs.it>

Next2U: Solutions and systems for non-invasive and non-contact monitoring of psychophysiological state – <https://www.next2u-solutions.com>

Dimensione Solare (employer): Hi-tech hardware and software solutions and products. <https://www.dimensionesolare.it>

Past Working Experience:

June 2021 to December 2022:

[4 days per week] Back-end developer (Node.js) at Accenture. The project involved development of new features and maintenance of ACN's client offline catalog and internal back office tools.

May to September 2020: Part-time Front end and Node-RED Developer

Officine Innesto – Torino – <https://www.officine.cc>

Developed "Termo-controllo" Raspberry Pi and Node-RED based thermo scanner device with face recognition and (remote) entrance management.

Node-RED was used to manage the acquisition of a thermo camera and a conventional camera, VUE.js was used to show the UI and interaction with user.

July 2019 to February 2020: Full stack developer

Engine S.r.l. – Serre di Rapolano (SI). I Developed a cloud system to manage traffic cameras remotely: Celeritas Cloud. To be deployed during 2020/2021.

Used VUE.js for the dashboard, Java EE for the backend and PostgreSQL as database.

September 2018 to February 2019: System admin and developer

Dimensione Solare S.r.l. – Notaresco (TE). I wrote the ASTRA project. Funded by MiSE.

May to August 2018: Web developer

Nebulab.it – Pescara.

Development of Ruby on Rails e-commerce solutions.

February 2018 to May 2018: Web development and Javascript teacher

Turn into Coders – Torino.

Thought seminars on HTML, CSS and plain JS web development.

February 2017 to December 2017: Web developer

Founders & Coders C.I.C. – London.

Stem ambassador web development teacher – London.

From May 2016 to February 2017:

Postdoc Research Associate at Department of Cellular and Molecular Neuroscience, Imperial College Faculty of Medicine – London, funded by BTRC – Brain Tumour Research Committee.

From June 2014 to November 2015:

Postdoc Research Associate at MRC – Clinical Sciences Centre, Imperial College Hammersmith Hospital Campus – London, funded by MRC core funding.

From May 2010 to March 2014:

Postdoc Research Associate at Department of Cellular and Molecular Neuroscience, Imperial College Faculty of Medicine – London, funded by ERC grant - “Improved retrograde lentiviral vectors for gene therapy in motor neuron disease”.