



João Paulo Amaro da Costa Luz Carneiro

WORK EXPERIENCE

CEO and Founder *2018-Ongoing*

C-NAPSE, Portugal

An Innovation and Technology consultancy company supporting others developing strategies and projects in multiple domains

Innovation and Technology Consultant *2017-Ongoing*

Lisbon City Hall, Economy and Innovation Division, Portugal

Department focused on developing innovation projects and promoting the development of strategic sectors

- ✓ Vision and strategy definition for the Lisbon Open Innovation Centre
- ✓ Conference organiser and moderator “Robotics in Healthcare” (2019), Knowledge Centre, CUF Descobertas
- ✓ Conference organiser “Robotics and the Pandemics” (2020), online

Head of Security *2017-Ongoing*

Aptoide, Portugal

The third largest Android mobile app marketplace, distributing 1.2 million apps to over 300 million active users worldwide

- ✓ Vision, strategy and coordination for Anti-Malware team and systems
- ✓ App Technology (Backend Systems) Product Owner (since 12-2020)

Assistant Professor *2018-Ongoing*

ISTEC – Institute of Advanced Technologies, Portugal

Higher education institute offering academic degrees in the field of computer science and multimedia

- ✓ Teaching Advanced Database Systems on Computer Science and Engineering degrees

Research Consultant *2012-Ongoing*

UCP/CEPCEP - Portuguese Catholic University, Research Centre for Portuguese Speaking Peoples and Cultures, Portugal

A centre developing projects promoting culture and intercultural exchange including in social and digital inclusion

- ✓ Data recovery and analysis for National and European Social Inclusion projects
- ✓ Consultancy on taxonomy and database for building an European catalog of Digital Inclusion best practices

Vice-President – Internet of Things *2016-2019*

ACEPI – Portuguese Electronic Commerce and Interactive Advertising Association, Portugal

An independent, not-profit organisation acting in education, legislation and technologies to support the Portuguese digital economy.

- ✓ Annual conference organiser and moderator “Portugal Digital Summit”

PERSONAL DETAILS

38 years old, 3 children
Rua dos Argonautas, 3-5ºD
1990-014, Lisboa, Portugal
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AREAS OF EXPERTISE

Innovation & Technology
Digital Transformation
Product Management
Research & Development
Mobile Malware
Robotics
Computer Vision
Artificial Intelligence
3D Reconstruction
Neuromorphic

LANGUAGES

Portuguese and English
written and spoken fluently

French spoken fluently

Independent R&D Consultant *2003-2018*
Independent Contractor/Freelancer

R&D Director *2014-2015*
Orizon Vision, Portugal

A company focused on developing Computer Vision solutions for industry.

- ✓ Coordinate R&D strategy and opportunities in the fields of Robotics, Computer Vision and Artificial Intelligence
- ✓ New business development and funding applications
- ✓ H2020 SME Instruments project coordination

ICT Coordinator *2014-2015*
Universal Values Museum, Portugal

A place combining culture, education, technology, I&D and entertainment, stimulating reflection about each one's role in society

- ✓ Conception of interactive experiences to promote universal values through innovation and technology
- ✓ Coordinate ICT infrastructure

Phd Researcher *2010-2014*
Institut de la Vision, France

Largest European research centre dedicated to vision diseases joining researchers, doctors and industrialists around patients.

- ✓ Research on bio-inspired computer vision methods bridging neuroscience biological vision models and engineering using artificial retinas

3 journal papers and 1 patent

Researcher & Software Developer *2009-2010*
Studio Roosegaarde, Netherlands

A studio combining designers and engineers in interactive artwork projects that merge people, art and technology in urban environments

- ✓ Research and develop a wireless framework for Internet of Things based interactive artwork

MSc Researcher *2007-2009*
Movensis, Portugal

A company focused on developing mobile computing solutions.

- ✓ Research and development on Internet of Things system for environmental monitoring

1 poster and 1 conference paper

EDUCATION AND TRAINING

PhD Degree in Robotics and Computer Vision *2010-2014*
Université Pierre et Marie Curie, France

MSc Degree in Computer Engineering *2007-2009*
Instituto Superior Técnico, Portugal

TEACHING AND COMMUNICATIONS

Lectures:

Invited lecturer: "Introduction to Neuromorphic Computation and Neuromorphic Vision", Faculdade de Ciências, Universidade de Lisboa, [2014-2021](#)

Invited lecturer: "Neuromorphic 3D Vision", Instituto de Sistemas e Robótica, Instituto Superior Técnico, Universidade Técnica de Lisboa, [2014](#)

Invited Speaker (best student paper award): João Carneiro, Vitor Rodrigues, Carlos Ribeiro, "Environmental Monitoring based on Wireless Sensor and Actor Networks", Enviroinfo, [2008](#)

PUBLICATIONS

Patents and Publications:

Carneiro, J. (2020). A Review on Tools for Teaching Database Systems Online. Kriativ-tech, 1(8).

Carneiro, J. (2018). Progressive Web Apps: Concepts and Features. Kriativ-tech, 1(7). DOI: [10.31112/kriativ-tech-2018-01-27](https://doi.org/10.31112/kriativ-tech-2018-01-27)

leng Sio-Hoi, Carneiro Joao, Osswald Marc, Benosman Ryad, "Neuromorphic Event-Based Generalized Time-Based Stereovision", Frontiers in Neuroscience 12, 442, [2018](#)

Ryad Benosman, João Carneiro, Sio-Hoi leng, "Method of 3D reconstruction of a scene calling upon asynchronous sensors", US Patent 9,628,777, [2017](#)

Sio-Hoi leng, João Carneiro and Ryad Benosman, "Event-Based 3D Motion Flow Estimation using 4D Spatio Temporal Subspaces Properties", Frontiers in Neuroscience 10, 596, [2016](#)

João Carneiro, "Asynchronous Event-Based 3D Vision", PhD Thesis, Université Pierre et Marie Curie - Paris VI, [2014](#)

João Carneiro, Sio-Hoi leng, Christoph Posch and Ryad Benosman, "Asynchronous Event-Based 3D Reconstruction from Neuromorphic Retinas", Neural Networks, 45(0):27-38, [2013](#)

João Carneiro, "Environmental Monitoring in Wind Farms based on Wireless Sensor and Actor Networks", Msc Thesis, Instituto Superior Técnico, Universidade Técnica de Lisboa, [2009](#)

João Carneiro, Vitor Rodrigues, Carlos Ribeiro, "Environmental monitoring based on wireless sensor and actor networks", Iberian Conference on Information Systems and Technologies, P07, 2008

João Carneiro, Vitor Rodrigues, Carlos Ribeiro, "Environmental monitoring based on wireless sensor and actor networks", Enviroinfo, 2008