Simone Cirillo

Via G. Pogliani 6 Address

20037 Paderno Dugnano - Milano

Italy

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E-Mail simone.cirillo@fastwebnet.it

Nationality Italian

Date of Birth 10 March 1985

> Gender Male

Work Experience

August 2010 — [Frozen] **Chief Technology Officer, Partner**

> Activities Full responsibility over the firm's technological assets, infrastructure, strategies

and IP. Requirements' analysis, design, and implementation of the firm's proprietary Genetic Programming based automated trading architecture, from proof-of-concept to production. Software R&D in the areas of Algorithmic

Trading and Genetic Programming.

Employer Almont Capital LLC

12800 Hilcrest Road, 75230 Dallas, TX (USA)

Finance, Applications of Artificial Intelligence Sector

December 2014 — June 2015 External Collaborator

> Activities Requirements analysis and software development in support of research activities

Göteborgs Universitet **Employer**

Department Of Philosophy, Language, and Theory of Science

Olof Wijksgatan 6, 40530 Göteborg (Sweden)

Artificial General Intelligence, Logic, Linguistics Sector

September 2012 — February 2013 Consultant

> Computational and algorithmic analysis of Raven's APM test items. Activities

Drafting of a difficulty model based on psychometric data. Requirement analysis for the creation of parallel items.

Employer Psychometrics Sweden

Sunnerbovägen 1, 18233 Danderyd (Sweden)

for Pearson Assessment Sweden AB

Sector Psychometrics, Applications of Artificial Intelligence

January 2009 — June 2009 Intern - Software Developer

> Activities Creation of the scenario and implementation of the software for a proof-ofconcept demonstration about moral reasonings in artificial agents.

For the final part of the demo the agent was connected to the REEM-B humanoid robot by PAL Robotics (Barcelona, Spain), covered by the Swedish television

program SVT Vetenskap Magasin.

Employer iRobis AB

Vasaplatsen 2, 41134 Göteborg (Sweden)

Robotics, Applications of Artificial Intelligence Sector

Education

September 2008 - June 2010 Master of Science in Applied Information Technology,

Intelligent System Design

Chalmers University of Technology Institution

Chalmersplatsen 1, 41296 Göteborg (Sweden)

Principal Subjects Al techniques and methods, robotics, computer vision, machine learning, prototype

design and development, innovation and entrepreneurship

Master's Thesis An Anthropomorphic Solver for Raven's Progressive Matrices

September 2004 — March 2008 Laurea in Ingegneria Informatica

(Bachelor's Degree in Computer Engineering)

Politecnico di Milano Institution

Piazza Leonardo da Vinci 32, 20133 Milano (Italy)

Computer engineering core knowledge, networking, programming languages, Principal Subjects

robotics, software and hardware architectures, software engineering

Design and Development of the Control and Communication Software for a Bachelor's Thesis

Quadruped Robot

November 2007

Subject

TOEFL iBT: Test of English as a Foreign Language. Score: 112/120

English Language Proficiency

Level in International Classification

CEFR C2, Cambridge CPE - B/C

Languages

Mother tongue

Italian

Other languages

English Sw edish German

Listening	Reading	Speaking	Writing
C2: Proficient	C2: Proficient	C2: Proficient	C2: Proficient
B1: Independent	B2: Independent	A2: Basic	B1: Independent
A1: Basic	A1: Basic	A1: Basic	A1: Basic

Common European Framework of Reference (CEFR) levels

Relational Skills

Excellent verbal and written communication and relational skills. Familiarity and competence with international and multicultural contexts, gained from English language learning experiences in UK, USA and Ireland from 1997 to 2002 and from having lived, studied and worked in Sweden from 2008 to 2013.

Organizational Skills

Very good self-management and prioritization skills, autonomous and independent worker. Comfortable with leading and coordinating small teams, while preferring advisor/leader support roles. Accustomed with having personal accountability and responsibilities. Aptitude to planning and "seeing the big picture" while not disregarding attention to details.

Technical Skills

Computer, network, AI, and robotic technologies, methods and architectures. Strong competences in the field of Evolutionary Algorithms, particularly Genetic Programming. Machine learning and deep learning models and techniques. Automated/algorithmic trading platforms.

Machine administration. Enterprise computer systems.

Scientific, technical writing and exposition.

Experienced C# / .NET, C, Java, LaTeX, MATLAB, Pascal, Python, XML **Programming Languages**

ADA, Android platform, CUDA C, C++, F#, Lua, Basic Mathematica, SQL, UML, Web development languages

Visual Studio, Eclipse, Microchip MPLAB, Spyder (IDEs)

HeuristicLab (Optimization / Genetic Programming)

SciPy Ecosystem (Scientific Computing)

Deltix (Automated trading platform)

Office suites Windows OSes

GNU/Linux OSes Other Software

Experienced

MySQL, MSSQL, SQLite Scikit-Learn (Machine Learning)

Theano, Torch, Tensorflow (Deep Learning) Basic

AWS - Amazon Web Services 2D and 3D graphics applications

Web development tools

Wordpress

Other Traits

Naturally curious, inclined and driven to learn and improve, adaptable, reliable. Marked critical thinking, logical reasoning and problem solving capabilities. Aptitude and preference to research oriented, innovative, experimental work. Ability to perform while under stress or pressure.

Interests

Professional/Academical

General Artificial Intelligence, Genetic Programming, Machine Learning, Deep Learning, Knowledge Representation, Machine and Roboethics, Natural Language Acquisition, Autonomous Robotics.

Extracurricular

Other branches of science and technology, in particular cognitive and neurosciences. Future and tech trends. Electronic music. Videogames.

Publications

Claes Strannegård, Simone Cirillo, Johan Wessberg

Emotional Concept Development

Proceedings of the 8th International Conference on Artificial General Intelligence AGI 2015. Berlin, Germany. July 2015.

http://dx.doi.org/10.1007/978-3-319-21365-1_37

Simone Cirillo, Stefan Lloyd, Peter Nordin.

Evolving Intraday Foreign Exchange Trading Strategies Utilizing Multiple

Instruments Price Series [Preprint] arXiv.org. November 2014.

http://arxiv.org/abs/1411.2153

Simone Cirillo, Stefan Lloyd

A Scalable Symbolic Expression Tree Interpreter for the HeuristicLab

Optimization Framework

Proceedings of the 2014 conference on Genetic and Evolutionary Computation

GECCO '14. Vancouver, Canada, July 2014.

http://dx.doi.org/10.1145/2598394.26056

Claes Strannegård, Simone Cirillo, Victor Ström.

An Anthropomorphic Method for Progressive Matrix Problems

Cognitive Systems Research, June 2013. Elsevier.

http://dx.doi.org/10.1016/j.cogsys.2012.08.002

Associations

Ordine degli Ingegneri della Provincia di Milano - The Milan Order of Engineers. Iscr. n. A 29942, sezione A, settore C.

Sveriges Ingenjörer – The Swedish Association of Graduate Engineers.