Curriculum Vitae

PERSONAL INFORMATION

Surname		Segato
Name		Alice
Address		A. Volta 50, 22030, Eupilio (CO), Italy
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Nationality		Italian
Date of birth		03/04/1994

Education and Training

• Date (from – to)		From September 2016 - September 2018
• Name and type of organisation providing education and training		Politecnico of Milan, University
• Duration of the program of study		2 Years
• Principal subjects/occupational skills covered		COMPUTER ENGINEERING - Data Engineering, Advanced Computer Architectures, Advanced Database, Advanced Software Engineering, Foundations of Operations Research, Artificial Intelligence, Soft computing, Bioinformatics and Computational Biology, Ict for Health Care, e-Health Method and Applications, Computer Security, Formal Languages and Compilers, Basics of Calculus, Linear Algebra and Statistics.
• Title of qualification awarded		Master's degree in Computer Science
• Final mark obtained		103/110

• Date (from – to)		From September 2013 – To July 2016
• Name and type of organisation providing education and training		Politecnico of Milan, University
• Duration of the program of study		3 Years
• Principal subjects/occupational skills covered		COMPUTER ENGINEERING
• Title of qualification awarded		Bachelor's degree in Computer Science
• Final mark obtained		89/110

Graduation Thesis

Title	Surgical Path Planning for Minimally Invasive Neurosurgery and Deep Brain Stimulation using DTI Tractography
Language	English
Supervisor	Prof.ssa Elena De Momi
Thesis Summary	The current trend in medical intervention favors a less invasive approach with a tendency to minimally-invasive, localized therapy. Common procedures, employed in modern clinical practice, involve percutaneous insertion of needles and catheters for biopsy, drug delivery and deep brain stimulation (DBS). A biomedical flexible steerable probe is currently being developed at the Imperial College of London as one of the target of Eden2020 project. The main aim is the access of deep brain areas with minimum damage, in order to: accurately place minimally invasive instrumentation (catheters, electrodes for deep brain stimulation), perform clinical analysis and diagnosis (biopsy, sampling), localized drug delivery and micro neurosurgery. This master thesis is part of a PhD thesis whose aims is the development of a path planning algorithm for the pre-operative phase and defines surgical trajectories for brain tumour treatment in the context of Convention Enhanced Delivery. In particular, this thesis is focused on the use of Tractography to visually represent neural tracts using data collected by diffusion-weighted images, in order to provide the planner with a certain pose in its terminal part and use the data of the tractography no longer as a target but as an obstacle for the path planning of deep brain stimulation having as target subthalamic nuclei.

Certifications

Certifications of language knowledge	2016 - TOEIC Listening (495/C1) Reading (415/B2)

Certifications ECDL	2011 - ECDL Certifications

Certifications Labview	2016 - Labview Course

Certifications Matlab	2015 – Matlab Course

Work experience, stages, studies abroad

• Date (from – to)	From beginning of July to the end of August 2011
• Name and address of firm/university	Cambridge, living with a local family
• Main activities and responsibilities	English advanced course

• Date (from – to)	From September 2013 – Now
• Main activities and responsibilities	Private lesson for high school students and after starting my master's degree I began tutoring for bachelor's students.

• Date (from – to)	From September 2016 - Now
• Main activities and responsibilities	Basic courses of use of computers and programming for acquaintances and friends

Personal skills and

competences

Mother tongue	Italian

Other language(s)	English
• reading	excellent
• writing	good
• speaking	very good

Social skills and competences	Troubleshooting and problem solving familiarity, positive and humble attitude, strong analytical skills, learning fast new technologies, creativity, out-of-the-box thinking, dedication, good communication, ethical behaviour and strong interpersonal relationship.

Organisational skills and competences	Able to work independently, including organize and rationalise the tasks in a team situation. Good at motivate colleagues, matching the given dead lines.

Technical skills and competences	Good programming skills in the principal languages, Strong Data Structures and Algorithms skills, Computer Architectures, Databases and Software Engineering, Basic Web Development, Machine Learning, AI, Security, Vulnerabilities and Cryptography. Operating Systems: Windows, Linux, OS X Languages: C, C++, Java, Javascript, HTML, CSS, SQL, Python, Matlab

Other skills and competences	Strong passion for sport, especially for snowboarding and horse riding that practiced at a competitive level led me to national successes, especially during my high school years.

Additional information	Bent to travel all over the world, in order to discover new cultures and customs.