FABIO FUSARO

CURRICULUM VITAE

dal 1994 Consorzio Interuniversitario AlmaLaurea
Un ponte fra Università e mondo del lavoro e delle professioni

Date of birth / **09/03/1995** Age / **27**
Place of birth / **GENOVA (GE)**
Nationality/ citizenship / **Italy**
Via Sacheri, 16142 GENOVA (GE)
Driving licence / **B** / **Car available**
ID / **4574155** updated on **19/10/22**

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www.iit.it/it/people-details/-...

SOFT SKILL

Autonomy 9/10
Self confidence 10/10
Flexibility/Adaptability 10/10
Resistance to stress 9/10
Ability to plan and organize 10/10
Managing information 9/10
Precision/Attention to details 10/10
Learn continuously 10/10
Achievement of objectives 9/10
Entrepreneurial spirit and initiative 10/10
Communication 10/10
Problem Solving 9/10
Team work 10/10
Leadership 10/10

FOREIGN LANGUAGE SKILLS

europass

MOTHER TONGUE(S): **Spanish**

ENGLISH GOOD	B1	B2	B2	B1	B2

DIGITAL COMPETENCES

Self-assessment grid europass
Information processing Proficient user
Communication Proficient user
Content creation Independent user
Safety Proficient user
Problem solving Proficient user

EXPECTATIONS AND FEATURES OF THE DESIRED JOB

INTENTION TO CONTINUE STUDIES: **Yes** / Doctoral studies

ECONOMIC SECTOR: **1.** education, training, research and development

CAREER FIELD: **1.** Engineering and design

Career Goal

I would like to apply the knowledge in the field of Robotics Engineering or Automation, in particular the control of collaborative robots, autonomous agents and manipulators and the artificial intelligence of such agents.

WORK EXPERIENCES

Undergraduate Internship
ISTITUTO ITALIANO DI TECNOLOGIA
2019 - 2019

Main activities and responsibilities: Elaborato di Tesi
Employed as: intern/trainee - undergraduate internship

other information

Currently employed: No
Work experience made during studies: Yes

ACADEMIC STUDIES

PH.D.
2020 - 2023
ONGOING STUDIES

Politecnico di MILANO
Faculty: Ingegneria
Bioingegneria
PhD cycle: 35
Expected graduation date: 2023

MASTER'S DEGREE
2017 - 2019
CERTIFIED TITLE

Università degli Studi di GENOVA
Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi
Robotics engineering
LM-32 - 2nd level degree in Computer engineering
Dissertation/thesis title: Autonomous Navigation Of A Mobile Collaborative Robotic Assistant In A Mixed Human-Robot Environment | Dissertation/thesis subject: SISTEMI DI ELABORAZIONE DELLE INFORMAZIONI | Thesis supervisor: FULVIO MASTROGIOVANNI
Age at graduation: 24 | Official duration: 2 years
Final degree mark: **110/110**
Graduation date: 29/10/2019

BACHELOR'S DEGREE
2014 - 2017
CERTIFIED TITLE

Università degli Studi di GENOVA
Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi
Ingegneria biomedica
L-8 - 1st level degree in Information technology
Dissertation/thesis title: SVILUPPO DELL'INTERFACCIA GRAFICA DEL SIMULATORE DI PARTO, IMPLEMENTAZIONE DI UN SISTEMA DI GESTIONE DATI GENERATI DAL PROGETTO EBSIM. | Dissertation/thesis subject: INFORMATICA | Thesis supervisor: MAURA CASADIO
Age at graduation: 22 | Official duration: 3 years
Final degree mark: **100/110**
Graduation date: 27/10/2017

DESIRED JOB:
Robotics/Software/Automation Engineering
PREFERRED DISTRICT TO WORK IN: **1. GENOVA**

TECHNICAL CERTIFICATE
GENOVA
2014

Surveyors Vocational School
I.T.G.S. - M.BUONARROTI - , GENOVA (GE)
School-leaving examination mark: **87/100**
Kind of secondary school diploma: Italian secondary school diploma

INFORMATION TECHNOLOGY SKILLS

OFFICE AUTOMATION

Office Suite: (Advanced) | **Presentation Software:** (Highly Specialised) | **Spreadsheets:** (Advanced) | **Web Browser:** (Highly Specialised) | **Word Processors:** (Advanced)

APPLICATION SOFTWARE

CAD - Assisted Design: (Advanced) , Creo (Advanced) | **Data Visualization:** MATLAB (Highly Specialised)

COMPUTER PROGRAMMING

git (Advanced) | **Build Automation:** CMake (Advanced) | **Client/Server applications:** Hololens 2 (Advanced) | **Firmware and software for the industial electronics:** MPLAB-X (Intermediate) | **Integrated development environments (IDE):** Visual Studio (Advanced) | **Markup languages:** LaTeX (Highly Specialised) | **Programming languages:** C (Advanced) , C# (Advanced) , C++ (Advanced) , MATLAB (Advanced) , Python (Advanced) , Simulink (Advanced) | **Video game creation systems:** Unity (Advanced) | **Web Programming:** (Foundation)

SYSTEMS AND NETWORKS MANAGEMENT

Middleware: Robot Operating System (ROS) (Highly Specialised) | **Network architecture:** (Foundation) | **Operating systems:** (Highly Specialised) , Linux (Highly Specialised) , rtai (Intermediate)

DATA MANAGEMENT

DBMS: (Foundation)

GRAPHICS AND MULTIMEDIA

Video Editing and Processing: Clipchamp (Advanced) , iMovie (Advanced)

PROFESSIONAL ACCOLADES AND AWARDS

PRIZE
2021

Best Student Paper Award Finalist (I-RIM 2021)

PRIZE
2020

Finalist of the MECSPE Solution Award 2020

CONFERENCES AND SEMINARS

CONFERENCES
09/08/2021

IEEE International Conference on Robot and Human Interactive Communication , Virtual
Character: Presenter

CONFERENCES
19/07/2021

IEEE-RAS International Conference on Humanoid Robots , Virtual
Character: Presenter

CONFERENCES
19/10/2019

I-RIM , Roma
Character: Poster
re.public.polimi.it/retrieve/handle/11311/1119859/...

PUBLICATIONS

JOURNAL ARTICLES
2022

Merlo E., Lamon E., Fusaro F., Lorenzini M., Carfì A., Mastrogiovanni F., A. Ajoudani, An Ergonomic Role Allocation Framework for Dynamic Human-Robot Collaborative Tasks
Review: Journal of Manufacturing Systems
Under review

JOURNAL ARTICLES
2022

F. Fusaro*, E. Lamon*,E. De Momi, A. Ajoudani, A Comprehensive Architecture for Dynamic Role Allocation and Collaborative Task Planning in Mixed Human-Robot Teams
Review: IEEE Transactions on Robotics (T-RO)
* Contributed equally to this work.
Under review

CONFERENCE PROCEEDINGS
2022

El Makrini I., Omidi M., Fusaro F., Lamon E., Ajoudani A., Vanderborght B., A Hierarchical Finite-State Machine-Based Task Allocation Framework for Human-Robot Collaborative Assembly Tasks
Organization: IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
Accepted
Video link: https://www.youtube.com/watch?v=EQXSCXVDQkI

CONFERENCE PROCEEDINGS
2022

Merlo E., Lamon E., Fusaro F., Lorenzini M., Carfì A., Mastrogiovanni F., Ajoudani A., Dynamic Human-Robot Role Allocation based on Human Ergonomics Risk Prediction and Robot Actions Adaptation
Organization: IEEE Conference on Robotics and Automation (ICRA)
ieeexplore.ieee.org/abstract/document/9812438

CONFERENCE PROCEEDINGS
2021

Fusaro F., Lamon E., De Momi E., Ajoudani A., A Human-Aware Method to Plan Complex Cooperative and Autonomous Tasks using Behavior Trees
Organization: IEEE-RAS International Conference on Humanoid Robots
Video link: https://www.youtube.com/watch?v=eT-lYdvghas
ieeexplore.ieee.org/document/9555683

CONFERENCE PROCEEDINGS
2021

Fusaro F., Lamon E., De Momi E., Ajoudani A., An Integrated Dynamic Method for Allocating Roles and Planning Tasks for Mixed Human-Robot Teams
Organization: IEEE International Conference on Robot and Human Interactive Communication
ieeexplore.ieee.org/document/9515500

ABSTRACT/REPLY/COMMENTS
2021

Merlo E., Lamon E., Lorenzini M.,Fusaro F.,Carfì A., Mastrogiovanni F.,A. Ajoudani, Towards Dynamic Human-Robot Role Allocation based on Human Ergonomics Assessment
Review: Istituto per la Robotica e le Macchine Intelligenti (I-RIM) Conference
zenodo.org/record/5900543#.Y0_NpnZByUk

JOURNAL ARTICLES
2020

Balatti P*, Fusaro F*, Villa N, Lamon E, Ajoudani A, A Collaborative Robotic Approach to Autonomous Pallet Jack Transportation and Positioning
Review: IEEE ACESS
* Contributed equally to this work.
Video link: https://www.youtube.com/watch?v=HzruNzmwaHo
ieeexplore.ieee.org/document/9153757

CONFERENCE PROCEEDINGS
2020

Lamon E.*, Fusaro F.*, Balatti P., Kim W., Ajoudani A., A Visuo-Haptic Guidance Interface for the Mobile Collaborative Robotic Assistant (MOCA)
Organization: IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
* Contributed equally to this work.
Video link: https://www.youtube.com/watch?v=D5C8mPLx3UY
ieeexplore.ieee.org/abstract/document/9341357

ABSTRACT/REPLY/COMMENTS
2019

Lorenzini M*, Fusaro F*, Balatti P, De Momi E, Mastrogiovanni F, Kim W, Ajoudani A, Toward a Synergistic Framework for Human-Robot Coexistence and Collaboration (HRC 2)
Review: Istituto per la Robotica e le Macchine Intelligenti (I-RIM) Conference
* Contributed equally to this work.
Video link: https://www.youtube.com/watch?v=vorn4GwCT2g
re.public.polimi.it/handle/11311/1119859#.YOLXr…