



# Igor Lirussi

Nationality: Italian | Birth: 25/12/1995 | Gender: M | Marital Status: Single

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## WORK EXPERIENCE

### RESEARCH ASSISTANT - COGNITIVE ROBOTICS

Oct 2021 - Oct 2022

*Istanbul (TR) Boğaziçi University: Cognitive Learning and Robotics Laboratory*

Enabled industrial robot to pick an object requested. Particle-simulation physics in VR.

- Cognitive Robotics
- Virtual Reality



### RESEARCH ASSISTANT - INTERACTION ROBOTICS

Apr 2020 - Sep 2020

*Stockholm (SE) KTH Royal Institute of Technology: Robotic Perception and Learning Department*

Creation of software for natural language interaction with a humanoid robot.

- Human-Robot Interaction
- Dialog Engines



### RESEARCH SCHOLAR - COMPUTER VISION

Sep 2018 - Sep 2019

*Lisbon (PT) IST Instituto Superior Técnico: I.S.R. Institute for Systems and Robotics - VisLab*

Development of software for a mobile robot to navigate indoors and recognize surroundings.

- Object recognition and Dialog Processing for Human-Robot Interaction
- SLAM and Visual Navigation Systems



## EDUCATION

### MSc. COMPUTER SCIENCE AND ENGINEERING, University of Bologna

Sep 2019 - Today

Distributed Systems, Machine Learning, Languages, Compilers and Computational Models, Information Systems, Concurrent and Distributed Programming, Programming and Development Paradigms, Web Services and Applications, Smart City and Mobile Technologies, Agile, Continuous Integration and Delivery.



### ERASMUS MSc., Stockholm University

Jan 2020 - Jul 2020

Decision Making and Business Intelligence, Network Security, Cyber Forensics



### ERASMUS BSc., Lisbon University

Sep 2018 - Sep 2019

Artificial Intelligence, Operational Research



### BSc. COMPUTER SCIENCE AND ENGINEERING, University of Bologna







Sep 2014 - Sep 2019

Software Engineering, Embedded Systems and IoT, Automatic Controls, Mobile Application Programming, Operating Systems, Object-Oriented Programming, Network Programming, Telecommunications Networks, Law for Information Technology, Fundamentals of Image Processing, Databases, Algorithms and Data Structures, Computer Architecture, C Programming







## TECHNICAL SKILLS & SOFTWARE

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- Good mastery of high and low-level programming/mark-up languages (HTML-CSS, Assembly, C, C#, Java, Scala, Python, SQL, Bash scripting).
  -  Git/GitHub Actions-Projects
  -  OpenCV
  -  Unity
  -  Latex Writing
  -  ROS
  -  Office Suite
- Advanced knowledge of Digital Image Processing/Image Elaboration/Template Matching algorithms.
- Advanced skills in video and photo editing programs.
- Good knowledge of high-performance and data-intensive computing, Machine Learning and BI.
- Moderate mastery of software for automation, internal dynamics of micro-controllers, embedded systems and operation of sensors and mechanical actuators.

## LANGUAGES & INTERESTS

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	IT	Native Speaker	Winner "The 30 new emerging ideas of 2021" - Startup Day Unibo
	EN	Full Proficiency	Theoretical and Practical course of First Aid for companies
	PT	Conversational	Cooking and Sports Enthusiast
	SV	Basic level	Food Aid Program Volunteer - Blood Donor