

# Carlo RAPISARDA

## PERSONAL DATA

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PLACE AND DATE OF BIRTH:	Catania, Italy   May 10, 1996
LOCATION:	Stockholm, Sweden
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## EDUCATION

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<i>Ongoing</i> 2017-19	MSC in COMPUTER SCIENCE <b>KTH Royal Institute of Technology</b> , Stockholm, Sweden Specializing in Data Science
2014-17	BSC in COMPUTER ENGINEERING <b>Politecnico di Torino</b> , Turin, Italy
2012-13	High School diploma <b>Bernalillo High School</b> , Bernalillo, NM, USA
2009-14	High School diploma <b>Liceo Scientifico “G. Galilei”</b> , Catania, Italy

## WORK EXPERIENCE

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JUL-SEP 2018	Research Engineer at KTH Royal Institute of Technology Worked at the ROBOTICS, PERCEPTION AND LEARNING lab (RPL) on methods for robot motion control, grasping, and object pose estimation with Computer Vision techniques.
MAR-JUN 2017	Intern at TELEMATICA INFORMATICA, Turin, Italy Part of the BSc program. Front-end mobile development with Swift, React Native, Redux, React Navigation, ImmutableJS. Received bonus point on the BSc final grade as a result of the very positive reviews from co-workers and from the project manager.

## PROJECTS

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<i>Ongoing</i> 2017-18	Stress and Energy Tracking System for persons with TBI Development of a mobile application for individuals with Traumatic Brain Injury. The app is connected to a wireless sensor, monitoring real-time data, and predicting stress and energy levels with Machine Learning techniques. <b>iOS   Swift   Objective-C++   Python   SVM   Signal Processing</b> <a href="https://github.com/AssistiveTech-StressSensor/ATStressSensor">https://github.com/AssistiveTech-StressSensor/ATStressSensor</a> <a href="http://assistivetech.se/stress-sensor">http://assistivetech.se/stress-sensor</a>
MAY 2018	Video Frame Interpolation via Adaptive Separable Convolution Reproduction of a research paper on state-of-the-art methods for video interpolation. The resulting neural network achieves performance comparable to the original work, and was trained with a novel loss function. <b>Python   PyTorch   CNN   Image Processing   Video Processing</b> <a href="https://github.com/martkartasev/sepconv">https://github.com/martkartasev/sepconv</a> <a href="https://arxiv.org/abs/1809.07759">https://arxiv.org/abs/1809.07759</a>

- OCT 2017 | Sentiment Analysis in Social Media  
 Development of a toolbox for sentiment analysis from Twitter data. This work was developed as a final project for the Big Data In Media Technology course (DM2583) held by professor Haibo Li at KTH, together with other students.  
**Python | SKLearn | Keras | NLP | CNN**  
<https://github.com/steinnp/Big-Data-Final>
- OCT 2017 | Building a Planner for Minecraft  
 Implementation of a planner to control an AI agent in the Minecraft world. This work was developed as a final project for the Artificial Intelligence course (DD2380) held by prof. Jana Tumova and Patric Jensfelt at KTH, together with other students.  
**Java | Artificial Intelligence | Hierarchical Planning**  
<https://github.com/carlo-/MalmoAgent>
- 2015-17 | iPoliTO  
 Polished iOS app that provides useful and time-saving tools to the students of the Politecnico di Torino. The app consumes RESTful web services using the JSON data returned, it is open-source and entirely written in Swift.  
**iOS | Swift | REST | Open-Source**  
<https://itunes.apple.com/app/id1069740093>  
<https://github.com/carlo-/ipolito>

## TECHNICAL SKILLS

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Advanced: Objective-C, Swift, C, Python, Java, JavaScript, React Native/JS  
 Intermediate: C++, MATLAB, Bash, HTML,  $\LaTeX$   
 Basic: SQL, PHP, CSS

Packages used: NumPy, PyTorch, Scikit-learn, Matplotlib, Pandas, PyKDL  
 Tools used: Xcode, Git, Travis CI, JetBrains products, Jupyter, MATLAB, ROS

## LANGUAGES

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ITALIAN: Native  
 ENGLISH: Full Professional Proficiency  
 SPANISH: Basic Knowledge

## CERTIFICATES

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NOV 2016 IELTS Certificate  
 JUN 2014 Cambridge CPE

## INTERESTS AND ACTIVITIES

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Mobile Development, Artificial Intelligence, Reinforcement Learning, Robotics, Computer Vision, Photography, Hi-Fi Audio, Traveling, Cycling

## LINKS

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GITHUB: <https://github.com/carlo->  
 LINKEDIN: <https://www.linkedin.com/in/carlorapisarda>

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In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize the use of the personal details contained in this document.