

# Luca Bonamini

ROBOTICS ENGINEER

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## Summary

Luca Bonamini is currently a **Robotics Engineer** at **Proxima Robotics s.r.l.**. He received his Bachelor Degree in **Mechanical Engineering** from University of Genova and the Master Degree in **Robotics and Automation Engineering** from University of Pisa, in 2015 and 2018, respectively. After graduation he started a collaboration as Research Fellow at Robotics Research Center "E. Piaggio" of the University of Pisa, where he joined Roboteam-Italia, one of the teams of **Roborace**, an autonomous full scale electric racing car competition.

## Work Experience

### Proxima Robotics s.r.l.

ROBOTICS ENGINEER

- Researching and developing software for mobile robots

*Pisa, Italy*

*Jan. 2019 - PRESENT*

### Research Center "E. Piaggio"

RESEARCH FELLOW

- Developed a lidar-based mapping and localisation system for autonomous racing cars
- Worked as collaborator in Alter-Ego project

*Pisa, Italy*

*Dec. 2018 - Jan. 2020*

## Education

### University of Pisa

M.S. IN ROBOTICS AND AUTOMATION ENGINEERING

- Towards a shared autonomy control framework: application to Ego robot navigation

*Pisa, Italy*

*Sept. 2015 - Exp. Nov. 2018*

### University of Genova

B.S. IN MECHANICAL ENGINEERING

- Design of a two-stage parallel shaft gear reducer

*Genova, Italy*

*Sept. 2012 - Sept. 2015*

## Skills

|                    |                                      |
|--------------------|--------------------------------------|
| <b>Programming</b> | C/C++, Python, Matlab, HTML          |
| <b>DevOps</b>      | Docker, GitLab CI/CD, Bash scripting |
| <b>Tools</b>       | GitLab, Git                          |
| <b>Languages</b>   | Italian, English                     |

## Publications

### LiDAR-Based GNSS Denied Localization for Autonomous Racing Cars

- Massa, F.; Bonamini, L.; Settimi, A.; Pallottino, L.; Caporale, D. Sensors 2020, 20, 3992.

## Certifications

2011 **First Certificate in English (FCE)**, Grade A, University of Cambridge ESOL Examinations

*La Spezia, Italy*