



# UGO ABARA

edited via LaTeX

Sensor fusion " Localization " Optimal control  
CONTROL ENGINEER

Munich, Germany

+49 1521 0793945

precious.ugoabara@gmail.com

<https://48cfu.github.io>

## SUMMARY

"I am a Research Associate at the Technical University of Munich, working on research and development of optimal control algorithms for networked systems. I am an experienced researcher and a quick learner, passionate about autonomous driving, and enjoy applying optimal control and reinforcement learning techniques to solve the challenges in networked systems."

## CODE OF CONDUCT

I love to learn new things by myself and from other people.  
If I can't do something? I will learn how to **do it efficiently**.  
I love **collaborating and sharing knowledge** with my colleagues.  
I **automatize routine tasks** when possible.  
Whenever I'm stuck, I pull my head **out of the box**.  
I whip myself to **minimize** as much as possible **technical debt** when I code-craft.

## TECHNOLOGIES



## LANGUAGES (ISO 639-1) PROFICIENCY

elementary [DE](#)  
full professional working [EN](#)  
native or bilingual [IT](#)

## HOW I TRAIN MY BRAIN

### ACTIVITIES

- Conferences
- Hackathons
- Rafting
- Mountain bike
- Industry events
- Music and Dancing
- Programming
- Online tech groups
- Books, Comics, Mangas
- Video Games

### COMMITMENT

- Online courses
- Open Source
- Self-driving cars
- Hacktoberfest
- Blockchain enthusiast
- Personal side projects
- CODA Technical Community Ambassador

"jokes" based on ethnic, social or gender stereotypes do not make me laugh.

Radiates good vibrations when placed in a team.

## EXPERIENCE AND EDUCATION

2020

Job Education

### Research Associate

**Technical University of Munich** 05/2016-

Development of a mathematical framework for **event-based control** in the **large-scale networked control systems** and several experimental validations through **MATLAB, C++ and ROS**

### Self-Driving Car Engineer

**Udacity Nanodegree** 6 months

Projects on **Computer Vision, Deep Learning, Sensor Fusion, Localization, Control, Path Planning and System Integration**

### Visiting Research Associate

**Siemens Corporate Technology** 1 month

Carried out several discussion with the team members in order to understand the gap between my research direction and industrial applications

### Visiting Research Associate

**Delft University of Technology** 2 months

Development of a mathematical framework for event-based estimation in the presence of imperfect communication network

### EU Marie Skłodowska-Curie ESR

**Technical University of Munich** 2016-2019

Early Stage Researcher in the Initial Training Network Platform-aware **Model-driven Optimization of Cyber-Physical Systems (oCPS)**.

### Research Assistant

**Linköping University, Sweden** 9 months

Worked on different scientific papers enlightening the main results of my master's thesis. A journal paper was published in **IEEE-TAC** and conference papers at **CDC2015** and **CDC2016**

### M. Sc. in Automation Engineering

**University of Padova, Italy** 2012-2014

Thesis: "On the stability of positive nonlinear systems: Cooperative and concave system dynamics with applications to distributed networks." **Grade: 1.0**

### Lebid di Precious Abara

**Founder and Developer** 11 months

**Start-up creation:** Developed and managed a unique-bid e-commerce site

### B. Sc. in Information Engineering

**University of Padova, Italy** 2008-2012

Thesis: "A real-time realization of IIR resonant filters in a model of ear acoustic filtering for spatial sound rendering." **Grade: 103/110**

2008

This is a very condensed résumé. For a more detailed version please contact me.

Contact me!