Esteve **Tarragó**

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Experience

Datapath Team, Hewlett-Packard (HP)   *Sant Cugat, Spain*
R&D Firmware Engineer   *Sep. 2019 - Present*
- Design, program and test image processing functionalities in *C++* and *Python*.
- Solving firmware issues in legacy code and refactoring parts of it.

Institute of Robotics and Industrial Computing (IRI), UPC   *Barcelona, Spain*
Research Assistant   *Nov. 2018 - Sep. 2019*
- Design, construction, and control of a remote controlled segway hover-board with platform leaning control:
  - Analyzed the system of differential equations in order to choose the best parameters.
  - Programmed the firmware: controllers, communication, encoder signals, PWM signals, etc.
  - Programmed the control panel using a webpage, so that the robot could be controlled remotely.
  - Designed the parts, 3D printed them and assembled them.
  - Designed the electronic circuit and wired it.

Auto-ID Lab, MIT   *Boston, USA*
Research Assistant   *Feb. 2018 - Aug. 2018*
- Designed, trained and deployed a deep learning speech model to trigger at different brands with *TensorFlow*.

Education

M.Sc. in Advanced Mathematics and Mathematical Engineering   *Barcelona, Spain*
Faculty of Mathematics and Statistics (FME), UPC   *Sep. 2018 - Jun. 2019*
- Coursed the following paths:
  - Discrete Mathematics: Graph Theory, Codes & Cryptography, Discrete & Algorithmic Geometry and Combinatorics.
  - Scientific Computing: Numerical methods for dynamical systems and Computational Mechanics.

Interdisciplinary Engineering   *Barcelona, Spain*
Center for high interdisciplinary training (CFIS), UPC   *Sep. 2013 - Jun. 2018*
- Pursued the following bachelors as part of the double degree program of the UPC:

  Bachelor of Science Degree in Informatics Engineering   *Barcelona, Spain*
  Faculty of Computer Science of Barcelona (FIB), UPC   *Sep. 2013 - Jun. 2018*
    - Honors in: Programming, Probability & Statistics.

  Bachelor of Science Degree in Industrial Technology Engineering   *Barcelona, Spain*
  Barcelona School of Industrial Engineering (ETSEIB), UPC   *Sep. 2013 - Jun. 2018*
    - Honors in: Geometry, Business & Economics.

Skills

Languages	English — Advanced (C1), French — Basic (A2), Spanish and Catalan — Native
Programming	C++ and Python — Advanced, JavaScript — Intermediate
Tools	Tensorflow, Git, Angular, NodeJS, Gtest, MongoDB, Bash
Other	Car and motorcycle driving license.

Courses

2021	**Photogrammetric Computer Vision by Cyrill Stachniss**, Uni Freiburg	*Online Training*
2020	**Mobile Robotics by Cyrill Stachniss**, Uni Freiburg	*Online Training*
2020	**Real-Time Design Patterns for Modern C++,** Hewlett-Packard	*Sant Cugat, Spain*
2018	**Deep Learning for Speech and Language**, ETSETB TelecomBCN, UPC	*Barcelona, Spain*
2018	**Introduction to Deep Learning**, ETSETB TelecomBCN, UPC	*Barcelona, Spain*
2015	**Programming Contests Training**, CFIS, UPC	*Barcelona, Spain*

Extracurricular Activity

Cellex Fundation
EXAM PREPARATION AND CORRECTION
- Wrote and evaluated the physics and math problems for an exam to access a baccalaureate scholarship.

Barcelona, Spain
Feb. 2019 - Jul. 2019

Board of European Students of Technology (BEST)
BACK-END DEVELOPER
- Enabled our members to vote remotely through a responsive polling web application.

Barcelona,Spain
Sep. 2015 - Jan. 2018

European BEST Engineering Competition (EBEC) Barcelona Local Phase
TOPIC RESPONSIBLE
- Coordinated a team of 10 members in order to write 3 tasks that 100 students had to solve in limited time.
- Responsible for the material, the jury and organization needed for the competition.

Barcelona, Spain
Feb. 2018 - Nov. 2018

Hackathons
HACKER
- Attended multiple hackathons around Europe. It's a great excuse to travel and learn something new.
- Developed computer vision solutions, simulations, navigation's systems, animated webpages... and teamwork!

Cambridge / Stirling / Madrid
Sep. 2016 - Jun. 2019

Honors & Awards

2018	**2nd Place**, BCG Datathon		*Madrid, Spain*
2017	**1st Place**, CARNET Hackathon Mobility		*Barcelona, Spain*
2016	**1st Place**, CARNET Hackathon For a Better Driving Experience		*Barcelona, Spain*
2015	**Finalist**, FIB Data Structures and Algorithms Competition		*Barcelona, Spain*
2013	**Bronze medalist**, Spanish Olympiad in Physics		*Lleida, Spain*