

## EDUCATION

### **Degree in Engineering in Industrial Technologies**

*Escola Tècnica Superior d'Enginyeria Industrial de Barcelona, ETSEIB*

**Barcelona**

*Sep 2013 – May 2018*

- Obtained distinctions (mark above 90%) in *System Dynamics* and *Project 1*

### **Master's degree in Automatic Control and Robotics**

*Escola Tècnica Superior d'Enginyeria Industrial de Barcelona, ETSEIB*

**Barcelona**

*Sep 2018 – July 2020*

- Obtained distinctions (mark above 90%) in *Optimization in Control and Robotics*
- Final project thesis at the *Institut de Robòtica i Informàtica Industrial* with title: *Reinforcement Learning for robotic assisted tasks*

## WORK EXPERIENCE

### **Civit S.L.**

*Warehouse organization in a company specialized in paint commercialization*

**Mataró**

*Jul 2014, Jul 2016*

### **Institut de Robòtica i Informàtica Industrial / CSIC-UPC**

*Excelencia María de Maetzu Internship*

**Barcelona**

*Mar 2019 – Sep 2019*

*Developed project: Animated characters based on textual descriptions*

### **Institut de Robòtica i Informàtica Industrial / CSIC-UPC**

*Collaboration in SIMBIOTS project*

**Barcelona**

*Oct 2020 – Mar 2021*

- *Deep learning based algorithms for human 3D pose estimation from RGBD data*
- *Detect pattern and objects in RGBD images*
- *Human – Robot interaction*

### **Datision**

*AI developer in industry 4.0 projects*

**Terrassa**

*Mar 2021 - Now*

- *Predictive maintenance*
- *Defects prediction and causes in a manufacturing process*
- *Recommendatory system for optimal production conditions*
- *Human pose estimation and information gatherer through vision*
- *Real-time object detection and tracking*

## SKILLS

**Languages:** Catalan (Native), Spanish (Native), English (Advanced C1.2), French (Scholar)

### **Programming**

**Languages:** Python, C++, Assembler, Java, ROS, HTML, CSS

### **Software:**

SolidWorks, Ansys, MATLAB, Emacs, Android Studio, MPLAB IDE, OrCad, MS Office, Scratch, Blender, PyCharm, Visual Studio Code

### **Others:**

Docker, ROS, Wandb,

### **ADDITIONAL FORMATION**

- Awarded the English Language Immersion by the UIMP Grant
- Course of introduction to Android apps given by Barcelona Mobile Apps (Beginner level)
- Course: Developing Android Apps given by Google and Udacity (Intermediate level)
- Course of technician in educational robotics by Intermedia

### **ADDITIONAL INFORMATION**

- Secretary of "*Els Diablers del vi d'Alella*" (2018-)
- President of "*Colla Castellera: Arreplegats de la Zona Universitària*" (2019-2020)
- Basketball player since the age of 11 and coach
- Volunteer in Ironman Barcelona (2015,2016)
- Participation at *Hackathon: KairosHacks* in Barcelona
- Driving license and vehicle availability