



# Toni Nadal

3D BIOMEDICAL ENGINEER

- PROYECT MANAGER AT MASTERTEC -  
ADDITIVE MANUFACTURING & MEDICAL DEVICE REGULATION

## CURRICULUM VITAE



BARCELONA



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## ABOUT ME

I've always been struck by **how things work**, I guess that's why I've ended up being **passionate** about **technology**. I started my studies with a Technical Engineering in industrial **electronics**, accompanied with a two-year Master's Degree in **Biomedical Engineering** and complemented with a postgraduate degree in **Expert in Medical Devices**. Although these studies have given me the basis of my **knowledge**, I consider myself **self-taught**. In 2012 I started with **3D printers** as a hobby and I have been fortunate to have made it my **job**. I have my own **3D printer designs**, both filament (FFF) and resin (SLA-DLP), and **experience** with the rest of **additive manufacturing** technologies. From **optimized CAD design** parts for additive manufacturing (DFAM) to the calculation of **exact costs** and **times**.

I am currently applying this knowledge to generate **medical applications** such as **surgical planning** and tailored **surgical guides**. The main problem with 3D printing in healthcare is the lack of knowledge of the normative and **regulations** of medical devices. For this reason, I have just started the **doctorate** oriented to regulation and safety of **3D printers** in medical applications. But if you want to **know me** a little more you can enter [www.toninadal.com](http://www.toninadal.com) and follow my latest **achievements**.

## EXPERIENCE

2018

### GRUPO MASTERTEC

PROYECT MANAGER - HEALTHCARE 3D



**3D printing teacher: FormaCAD**

Online school of 3D design

2016 - 2017

### BOLOBERRY TECH

3D PRINTER DESIGNER (TYPE FFF)



**3D printing teacher: Fundación Blanquerna**

Ramón Llull University



**3D printing teacher: COAC**

Official College of Architects of Catalonia

2015 - 2016

### PRESOLID TECH

3D PRINTER DESIGNER (TYPE SLA)



**1st Open Source SLA 3D printer**

RESINCAT (Spain)

## EDUCATION

2019 - 2020 UB, BARCELONA

### POSTGRADUATE: EXPERT IN MEDICAL DEVICES

- REGULATORY ASPECTS: NORMATIVE AND REGULATORY

- QUALITY SYSTEMS: ISO13485

- PROJECT MANAGEMENT: TECHNICAL FILE



**Capsule inhaler**

Technical File (Final project)



**Integrated solution with printing 3D for COVID-19**

Publication (Research Square)

2018 MIT XPRO (MASSACHUSETTS INSTITUTE OF TECHNOLOGY)

### ADDITIVE MANUFACTURING FOR INNOVATIVE DESIGN AND PRODUCTION

- ADDITIVE MANUFACTURING AND WORKFLOWS

- CALCULATION OF COSTS AND TIMES, 3D PRINTING

- 3D METAL PRINTING



**Robot for Rehabilitation**

Control system (Final project)

2013 - 2015 UB & UPC, BARCELONA

### MASTER - BIOMEDICAL ENGINEERING

- BIOLOGY & PHYSIOLOGY

- R+D+I

- DESIGN OF MEDICAL EQUIPMENT



**Call discriminator**

Product (Final project)



**Control system, LabVIEW**

Publication (Enginy EPS)



**Accelerometer, Virtual Instrum.**

Publication (Enginy EPS)

2009 - 2013 UIB, BALEARIC ISLANDS

### INDUSTRIAL TECHNICAL ENGINEER, ELECTRONICS

- ELECTRICITY & POWER ELECTRONICS

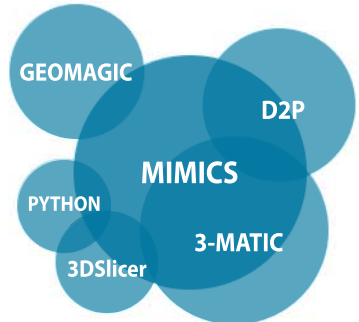
- AUTOMATA & ROBOTICS

- IMAGE PROCESSING

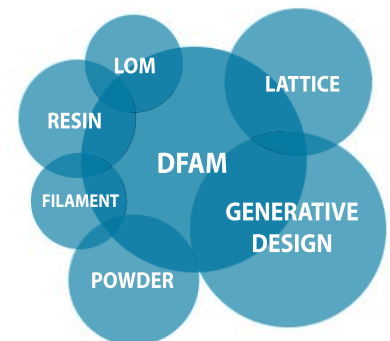


## ABILITIES

### - 3D HEALTHCARE -



### - ADDITIVE MANUFACTURING -



## LANGUAGES



English - Native



Spanish - Native



Catalan - Native



## PROFESSIONAL SKILLS

HARD WORKING

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COMUNICACION

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LEADERSHIP

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LEARNING

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CREATIVITY

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