



Camila Ceballos Santa

BIOMEDICAL ENGINEER

CONTACT DETAILS

-  Rochester, New York
-  +1 (585) 485 - 4450
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-  linkedin.com/in/camilaceballos

COMPETENCES

- Achievement oriented
- Analytical and purposeful thinking
- Proactive and leadership spirit
- Teamwork and collaboration
- Outstanding communication skills
- Receptive, capable and versatile
- Research and analysis of scientific literature

LANGUAGES

- English – Proficient
- Spanish – Native



EXPERIENCE

2021 **Graduate Research Assistant | 3D Bioprinting**
Rochester Institute of Technology, NY
Interdisciplinary Manufacturing Engineering and Design (IMED) Laboratory
Advisor: Iris. V. Rivero, MS, Ph.D
Research focus on **3D bioprinted human tissue models** for **regenerative medicine** applications
BioX – Cellink printer

2021 **Teaching Assistant | Additive Manufacturing**
Rochester Institute of Technology, NY
This course aims to help students in understanding the latest developments and **critical challenges of additive manufacturing**, and provide them with related techniques and **practical experience in 3D printing processes and applications**
3D Printers: Prusa i3 MK3, Formlabs Form 2, Markforged Onyx One, Markforged Metal X
Materials: PLA, Photocurable Resin, Onyx, Stainless Steel
Software: Simplify 3D, PreForm, Eiger, Fusion 360, nTopology, Meshmixer, Invesalius

2017-2019 **Biomedical Engineer | Biotechnology**
CES University
Research: "Isolation of **Stem Cells** from the Bichat Bag and osteogenic differentiation"
Tutors: Carolina Londoño Peláez, MsC, Ph.D, CES Biomedical Engineering Program Manager, and Diego Alejandro Velásquez Puerta, MsC, Ph.D
Responsibilities:

- **Research, analysis and interpretation of scientific literature** in reliable databases
- **Essay writing under scientific model**
- **Development of methodologies and protocols** to achieve specific objectives
- **Cell cultures** and preservation under optimal conditions
- Laboratory procedures for **cell differentiation** and **determination of cytotoxicity**

2018 **Clinical Engineering Internship**
Pablo Tobón Uribe Hospital
Ranking: #4 in Colombia and #10 in Latin America
Project: Centralized Alarm Management System in the Adult Intensive Care Unit
Tutor: Paula Andrea Berrio, International Committee Member of the American College of Clinical Engineering
Responsibilities:

- Research, analysis and interpretation of updated information and endorsed by **international entities: FDA, The Joint Commission, AAMI Foundation and ECRI Institute**
- Delve into **installation, commissioning and operation** of biomedical devices and systems involved in the project
- Identification, formulation and **troubleshooting**
- **Permanent oral and written communication** of a technical or scientific nature with UCI medical and engineering staff
- Participation and collaboration with the **interdisciplinary work team** in the **Engineering Department**
- **Permanent delivery of reports to the heads** of the different areas of the Hospital



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2021

EDUCATION

Ph.D. in Mechanical & Industrial Engineering

Rochester Institute of Technology, NY

GPA 3.8/4.0

RIT Ranking: #3 largest in STEM among U.S. private universities and #112 among national universities

2020-2022

ThePower MBA

Business model innovation, testing business ideas & startup, entrepreneurship & fundraising, leadership, digital marketing, finance & accounting, HR & talent management.

2014-2019

Bachelor's Degree in Biomedical Engineering

EIA University (Engineering School) in Collaboration with CES University (Medical School)

GPA 4.02/5.0

EIA University Ranking: #2 in Engineering in Colombia
CES University Ranking: #2 in Antioquia, #8 in Colombia and #126 in Latin America



2021

Harvard University

Bioethics: The Law, Medicine, and Ethics of Reproductive Technologies and Genetics

Grade 8.8/10

2021

CITI Program

Responsible Conduct of Research for Engineers

Grade 9.6/10

Biomedical Research with Human Subjects

Grade 9.4/10

2020

Harvard University

FDA: Prescription Drug Regulation, Cost and Access

Grade 9.6/10

2020

Johns Hopkins University

Design and Interpretation of Clinical Trials

Grade 9.3/10

2020

American Museum of Natural History

The Science of Stem Cells

Grade 10/10



2021

Full Scholarship for the Mechanical & Industrial Engineering PhD program at **Rochester Institute of Technology**, New York, United States

2017

Volunteer at **Tikkun Olam Makers** to create affordable prototypes for people with disabilities, Medellín, Colombia

2014

Author and speaker at the **III Biological Sciences Symposium** at the conference "Regeneration of cartilage tissue" at CES University, Medellín, Colombia

2014

Academic recognition for excellent performance at EIA University, Medellín, Colombia



PERSONAL INTERESTS

Love being in constant learning, leading a healthy lifestyle by exercising and cooking, enjoying my family and friends, and being surrounded by animals and nature