

# Giampaolo Maneri

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## EDUCATION

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<b>Worcester Polytechnic Institute (WPI), Worcester, MA</b> <i>Bachelor of Science Program in Computer Science (Sophomore year).</i>	<b>Aug 2022 - May 2026</b>
<b>Colegio Internacional de María Inmaculada (CIDMI), Panama City, Panamá</b> <i>High School Diploma.</i>	<b>Jan 2014 - Dec 2021</b>

## SKILLS

**Languages:** Spanish (*Native*), English (*Fluent*), Italian (*Moderate*).  
**Programming:** C++, Arduino Framework, C, Python, NodeJS, Java, Dr. Racket.  
**Software/Applications:** Camtasia Studio, Fusion 360, SolidWorks, Microsoft Excel (Certified), and PowerPoint (Certified).  
**Equipment/Operating:** 3D Printing, CNC Mills and Lathes, Power Tools, Electronics Prototyping, Electronics Labs.  
**Other certifications:** Google Cloud Architecture (ID: Z57M8CXKUJVV), and Engineering (ID: E7LKSP6WFMZH).

## PROFESSIONAL EXPERIENCE

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<b>Universal Education Initiative, Co-Founder, Vicepresident and CVO, WPI Business Lab.</b>	<b>Oct 2022 - Present</b>
<ul style="list-style-type: none"><li>Founded a nonprofit organization to provide quality education for vulnerable communities.</li><li>Worked closely with the President and CEO to oversee various aspects of the organization's operations, programs, and strategic initiatives. Manage the organization seeking sustainable growth and improvement along WPI Advisors.</li><li>Role responsibilities include Strategy Development, Program Management, Fundraising and Development, Financial Management, Board Relations, Staff Management and Development, External Relations, etc.</li></ul>	
<b>iD Tech Instructor: iD Tech Camps, California (Virtually).</b>	<b>May 2023 – July 2023</b>
<ul style="list-style-type: none"><li>Provide students with knowledge about electronics, programming, robotics, and game design.</li></ul>	
<b>Content creator, Module manager, Professor: Fundesteam, Panama City</b>	<b>May 2021 – Aug 2022</b>
<ul style="list-style-type: none"><li>Provided high-school professors in Panama with important information and skills they needed to know to prepare student participants for the International Robotics Olympiad taking place in Panama in 2023.</li><li>Created a full course on Arduino and electronics for high school students targeting public and private institutions.</li></ul>	
<b>Instructor, and Content Developer: Samsung Latin America, Panama City</b>	<b>May 2021 – Dec 2021</b>
<ul style="list-style-type: none"><li>Invited by Samsung to develop and implement a scholarship certification program for 228 Central American and Caribbean students focused on Scratch, Python, C, Arduino, and Algorithm Problem Solving.</li></ul>	

## PROJECTS

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<b>Breast Sensing Device, Electronics Design and Programming, WPI Life Sciences &amp; Bioengineering Lab.</b>	<b>May 2023-Present</b>
<ul style="list-style-type: none"><li>Invited to join a research project seeking correlation between breast temperature and hormonal irregularities or pathologies.</li><li>Designed and implemented electronic system to gather data from sensors attached to a brassier through the implementation of analog demuxes and microcontrollers. Currently working on a temperature monitoring software.</li></ul>	
<b>Sisma 365, Panama.</b>	<b>Mar 2018 - Present</b>
<ul style="list-style-type: none"><li>Designed and developed an IoT system to control Split Air Conditioners and other devices via the Internet and using Alexa voice commands. Managed and coordinated a team of developers to make the project possible.</li><li>Analyzed energy bills at my high school and designed a plan to reduce energy peak demand when all ACs turn on.</li><li>Maintained the server with its databases and code libraries while improving device stability and development.</li></ul>	
<b>Tu Propiedad 365 System, Panama.</b>	<b>Jan 2020 – Dec 2023</b>
<ul style="list-style-type: none"><li>Founded, and developed a Real Estate listing platform. Focused on the backend.</li><li>Designed database models in MongoDB and gained skills in scalability, Linux CMD, and server maintenance.</li></ul>	
<b>SmartPark, Panama.</b>	<b>Aug 2019</b>
<ul style="list-style-type: none"><li>Improved the parking process model by creating a prototype of a smart parking system using an FPGA and Arduino.</li><li>Evaluated Panamanian parking challenges and assessed sites for a pilot plan.</li></ul>	

## ACTIVITIES & LEADERSHIP

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<b>WPI High Power Rocketry Club, Engagement Executive Officer and Rocket Software Subteam.</b>	<b>Aug 2023 – Present</b>
<b>Bionics Club, WPI Club Member.</b>	<b>Apr 2023 – Present</b>
<b>WPI Admissions Tour Guide and Associate, WPI.</b>	<b>Feb 2023 – Present</b>
<b>Society of Hispanic Professional Engineers (SHPE), Secretary, WPI.</b>	<b>Jan 2023 – Jan 2024</b>
<b>Fundesteam, National Robotics Olympiad Judge, Panama City.</b>	<b>Oct 2021</b>
<b>Green Team, WPI Club Member.</b>	<b>Aug 2022 – Present</b>
<b>Colegio Internacional de María Inmaculada, Robotics Team Leader, Panama City.</b>	<b>2016 – 2019</b>
<b>Educational YouTube Channel: Developed a project portfolio since my early childhood.</b> <a href="https://youtube.com/c/losinventosdegiam">https://youtube.com/c/losinventosdegiam</a>	<b>Aug 2015 – Present</b>
<b>Violinist: Former member of the National Youth Orchestra of Venezuela. Continued to be self-taught.</b>	<b>2008 - Present</b>

## ACHIEVEMENTS

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<b>WPI Deans List: "Exceptional performance in challenging courses and projects."</b>	<b>Feb 2024 &amp; Jun 2024</b>
<b>TEDxWPI: Speaker for "Reshaping Education in Latin America."</b>	<b>Apr 2023</b>
<b>National Robotics Olympiad Winner: GreenLife Project.</b>	<b>Sep 2019</b>