

# PATRICIA L. GARCIA

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**OBJECTIVE:** Bilingual engineering student with a passion for engineering seeking a Summer 2021 graduate internship (May- Aug)

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## EDUCATION

**University of Southern California (USC)** Los Angeles, CA  
*Master of Science in Product Development Engineering*  
*Product Development Systems Track*  
Affiliations: 2021 GEM Full Fellow Expected Graduation: April 2023  
**Florida International University (FIU), Honors College** Miami, FL  
*Bachelor of Science in Interdisciplinary Engineering, Manufacturing Engineering Concentration*  
*Minor in Business Management* April 2021  
Cumulative GPA: 3.46/4.0 Florida Bright Futures Academic Scholar  
Affiliations: Society of Women Engineers (SWE), Society of Hispanic Professional Engineers (SHPE)

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## WORK EXPERIENCE

**Medtronic Cardiac and Vascular Group (CVG)** Brooklyn Park, MN (Remote)  
**Manufacturing Engineering Intern** June 2020– August 2020

- Applied DMAIC problem solving methodologies to prove feasibility of post label print scan verification
- Utilized critical thinking skills to identify a novel quality improvement process that decreased amount of CAPA, NCMRs, and escapes
- Worked cross functionally with various teams and stakeholders to achieve quality standards
- Communicated key takeaways and best practices to senior leadership

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## RESEARCH EXPERIENCE

**University of California Berkeley- Tsinghua-Berkeley Shenzhen Institute (TBSI) Data Science and Information Center** Berkeley, CA  
**Mechanical Engineering Research Intern** June 2019– August 2019

- Led a synergistic, multi-institutional research project between UC Berkeley and Tsinghua University focused on global transformational, translational, and trans-disciplinary collaboration
- Designed a low-cost wrist-based piezoelectret pulse sensor to provide an economical solution for pressure measurement
- Collected and analyzed experimental pulse data from volunteers using a self-developed pulse sensing system
- Communicated results at lab meetings and national conferences via poster and oral presentations using PowerPoint

**Massachusetts Institute of Technology (MIT)- d'Arbeloff Laboratory for Information Systems and Technology** Cambridge, MA  
**Mechanical Engineering Research Intern** June 2018– August 2018

- Engineered skeletal muscle tissues for use in the development of actuators for bio-robots, pre-clinical drug advances, and transplantation
- Established a project timeline and provided weekly progress reports to Singapore based principal investigator
- Established metrics for evaluating project performance and progress through both quantitative and qualitative measures
- Managed material inventory and purchased lab supplies while maintaining related records
- Created protocols including research methodology, report preparation, and operating equipment

**Worcester Polytechnic Institute (WPI)- Life Sciences and Bioengineering Center at Gateway Park** Worcester, MA  
**Bioengineering Research Intern** May 2017– August 2017

- Designed experimental method for the manufacturing of fibrin microthreads for treatment of myocardial infarction
- Developed a protocol for assessing the integration of the composite components
- Evaluated integration of components through tensile testing to determine the specimen's ultimate tensile strength (UTS)
- Delivered clear and concise abstract summarizing all relevant research material, data, and results
- Organized all charts and graphs with statistical analyses with publication quality formatting using Sigma Stat and Sigma Plot software
- Communicated results at lab meetings and national conferences via poster and oral presentations using PowerPoint

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## PROJECTS

**college thrifts LLC- Social Venture** Miami, FL

- Identified opportunity to develop a B2C (re)commerce application to promote sustainability and inclusion across college campuses
- Bootstrapped \$31,000 from national pitch competitions and obtained feature in national press articles including NASDAQ
- Designed and developed a user-friendly website as a launching pad (<https://www.collegethrifts.com>)
- Developed detailed storyboards, mockups, and prototypes to effectively communicate interaction and design ideas
- Built strategic marketing and business development plans
- Currently working on developing a web application
  - Awards: 1<sup>st</sup> place Venture Bites Pitch Competition, 3<sup>rd</sup> Place Carnegie Mellon University Venture Challenge, Draper Pitch Competition Semi-Finalist, Clinton Global Initiative University (CGI U), 1st Place Global Shapers Miami Pitch Competition Winner, NCWIT Collegiate Award Finalist, HATCH(let) Pitch Competition First Place Winner, Forge 2020 Pitch Competition Winner, #CEOGLOBAL2020 Pitch Competition Semi-Finalist, El Poder del Pitch - LTX Fest Pitch

Competition Winner, 1776 Fall 2020 Cohort 3<sup>rd</sup> Place Verizon x LULAC Latino Flash Pitch Competition Winner, 2020 Millennium Fellowship, Her Campus Aussie Roo Crew Fellow, FastTrac™ Early Risers Academy Pitch Competition Winner, Watson Institute Sustainability Fellowship, startIMPACT Pitch Winner, ONESIXONE Summer Founders Cohort, 2020 Daveler Entrepreneurship Fellow, iChange FIU Social Innovation Challenge Winner, Robert V. Farrell Global Learning Scholarship in Sustainable Development

**Wearable Device for Remote Monitoring of COVID-19 Patients- *Florida International University***

**Miami, FL**

- Participating in a two-semester senior design project with four team members to design and develop a multipurpose wearable device
- Developing a cost analysis for the manufacturing process to lower manufacturing costs using the basis of “fit, form, and function”
- Assessing and analyzing stakeholder needs in order to develop an effective product for everyday use
- Organizing weekly meetings with faculty advisors to discuss progress, issues, and next steps

**Smart Pantry- *Stanford University***

**Palo Alto, CA**

- Worked in a team of five during a 36-hour hackathon to create an Android app and website to track the status of perishable items for consumers, distributors, and aid organizations using Android Studio, JavaScript, Balasmiq, Twilio, and Wix
- Responsible for the wireframing and prototyping of the app using Balsamiq and all-purpose website using Wix for judging

## CONFERENCE PRESENTATIONS

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- Society of Hispanic Professional Engineers (SHPE) Engineering Science Symposium, Phoenix, AZ October 2019
- National Conference for Undergraduate Research (NCUR), Kennesaw, GA April 2019
- Conference for Undergraduate Research (CURE) at FIU, Miami, FL, April 2019
- Emergent Behaviors of Integrated Cellular Systems (EBICS) Annual Retreat, St. Charles, IL, July 2018
- Emerging Researchers National Conference in STEM, Washington, D.C, February
- Annual Biomedical Engineering Society (BMES) Conference, Phoenix, AZ, October 2017
- Florida International University (FIU) McNair Scholars Research Conference, Miami, FL, October 2017
- University of Miami (UM) Summer Research Symposium, June 2016

## AWARDS AND ACHIEVEMENTS

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2021 GEM Full Fellowship, March 2021  
2021 National Center for Women & Information Technology (NCWIT) Collegiate Award Finalist, December 2020  
2020 National Action Council for Minorities in Engineering (NACME) Scholar, September 2020  
2020 GMIS Mellado Family Scholarship, September 2020  
2020 United Nations Millennium Fellow, July 2020  
Hispanic Information Technology Executive Council (HITEC) Scholar, June 2020  
Bold.org Minority Women in STEM Finalist, May 2020  
startIMPACT Scholarship, May 2020  
NCWIT Change Leader Scholar, May 2020  
Scientist Mentoring & Diversity Program (SMDP) MedTech Scholar, April 2020  
Discover Bloomberg: Women in Engineering. April 2020  
2020 Daveler Entrepreneurship Fellow, April 2020  
Robert V. Farrell Global Learning Scholarship in Sustainable Development, March 2020  
iChange Social Innovation Challenge 2nd Place, March 2020  
Forbes Under 30 Scholar, October 2019  
Discover SHPE Scholarship, October 2019

GMIS Latina STEAM Team Scholarship, September 2019  
GMIS Shell Oil Company Pathway Award, September 2019  
HACU ¡Adelante! Leadership Institute Scholarship, July 2019  
Engineering Division of the Council for Undergraduate Research Scholarship, April 2019  
MIT Hacking Healthcare Hackathon 3<sup>rd</sup> Place, December 2018  
SAS Undergraduate Success Scholarship, December 2018  
John S. Martinez Leadership Scholarship, November 2017  
FIU Golden Drum Scholarship, May 2017  
FIU Alumni Association Legacy Scholarship, May 2017  
UWS Miami Bayside Foundation Scholarship, May 2017  
Commission for Women Scholarship, May 2017  
Lucha Latina Scholarship, May 2017  
Garcia Perseverance Scholarship, May 2017  
Commissioner Willy Gort Foundation Scholarship, May 2017  
Ortega Foundation Scholarship, May 2017  
Miami Dade Fair and Expo Scholarship, May 2017  
Youth Leadership Miami Scholarship, May 2017  
Miami Dade Mayor's Pursuer of Excellence Award, May 2017  
Smith College Woman of Distinction, October 2016  
Howard Hughes Medical Institute (HHMI) Scholar, August 2016

## SKILLS

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- Microsoft Office, SolidWorks, Lean Sigma DMAIC Problem Solving, C++, MATLAB, HTML/CSS
- Native English and Spanish Speaker

## CERTIFICATIONS

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**SW47x: Entrepreneurship in Emerging Economies**  
*Harvard Business School*

**Cambridge, MA**  
*August 2020*

**Lean Sigma DMAIC Problem Solving**  
*Medtronic*

**Brooklyn Park, MN**  
*June 2020*

**Biomedical Responsible Conduct of Research CITI Certification**  
*Massachusetts Institute of Technology*

**Cambridge, MA**  
*June 2018*