

education	Purdue University Master of Science · Product Design	May 2017
	University of Brasilia Bachelor of Science · Automation and Control Engineering	Sep 2013

leadership & work

- ZeroUI** · Founding Member, Technical Program Manager (Jun 2015 – Present)
 Led product development for EVT, DVT, PVT Cycles and NPI process of award winning world's first hand controlled robotics kit as well as innovative eLearning platform
- Oversaw contract manufacturers (CM) in Guangdong, China for entire duration (3 months) of product launch. Supervised CM to validate, test and manufacture the first mass production batch, performing Root Cause Analysis, process optimization and Quality Control of final products at fast-paced environment
 - Leadership and collaboration with engineers and interns on the full-stack development of Ziro Studio – virtual platform for Python learning, programming and 3D development (zirostudio.com)
 - Worked with cross-functional teams on roadmap definition for different products, sprint planning, management of product backlogs and prioritization of features during multiple stages of development
 - Created multiple 3D models for various parts of Robotics Kit, designing for different manufacturing methods
 - Carried out DFM reviews for all product changes to accommodate for injection molding, 3d printing, and other manufacturing processes for ABS, nylon, and other types of plastic
 - Developed multiple electronic and circuit designs for PCB fabrication for electromechanical and robotic systems, along with developing the firmware for each design
 - Responsible for system design for IoT Robotics including camera-intelligence system, OLED screen system, voice interface and motor controls for smart interaction products
 - Developed optimized network architecture/communication protocols, including BLE, WiFi, Zigbee and others

C Design Lab @ Purdue · HCI Researcher & Designer (Jan 2015 – Aug 2017)

- Co-Author of *RevoMaker: Multidirectional 3D Printer* – ACM Symposium UIST 2015 full paper
- Worked for 2 years in fast prototyping, UX and personal robotics research and development
- Coached “Product design Workshop” on concept generation to final prototype (Summer 2016 and 2017)

Purdue University · Teaching Assistant (Jan 2015 – May 2017)

- ME 557 – Design for Manufacturability (Fall 2016)
- ME 553 – Product and Process Design (Spring 2017 & Spring 2016)

relevant projects

Ciclar · Electric Car Development Electronic Team Leader and Designer (Fall 2012)

- Led large team of engineering students on the design of electric and electronic systems for a custom EV
- Mentored and worked with 12 students delegating tasks, managing results and organization of the team
- Worked and collaborated with 2 other teams and their leaders on the project management

InterSafe · Smart Car Alarm Solo Senior Design Project (Summer 2013)

- Worked individually on the development, programming and implementation of automotive security system with audio and cellular functions for a two-way interaction between user and vehicle through a cellphone
- Developed electronic, firmware and PCB designs on the fully working embedded system prototype

skills

Organizational Awareness	Python	Fast Prototyping	SolidWorks
Agile Methodologies	C++	3D Printing	AutoCAD
Great Communication	Swift	Laser Cutting	Autodesk Eagle

languages & awards

English Fluent	Spanish Fluent	Portuguese Fluent	Italian Intermediate
-----------------------	-----------------------	--------------------------	-----------------------------

Lecturer

- *Building an Electric Car* – X SENE · University of Brasilia (Fall 2011)
- *3D Printing: The Next BIG Thing?* – Guest Lecturer for ME 553 Product & Process Design · Purdue (Spring 2017)
- *Fast Prototyping in Toy Design* – Gifted Education Resource Institute Workshop · Purdue (Summer 2016)

Engadget Best of CES · Best of CES Award to Ziro Robotics (2016)

Design Intelligence Awards · Design Intelligence Awards (DIA) to Ziro Robotics (2018)

ACM Symposium UIST 2015 Volunteer · Best Volunteer Award (2015)

Brazilian Astronomy Olympiad National Competition · Gold Medalist (2007)