

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

leadership & work **ZeroUI** Founding Member & Senior Product Development Engineer (Jun 2015 – Present)
 Led product development for EVT, DVT, PVT Cycles and NPI process of award winning world's first hand controlled robotics kit

- Leadership and teamwork with engineers and interns on the full-stack development of Ziro Studio – virtual platform for Python learning, programming and 3D development (zirostudio.com)
- Designed and developed 3D CAD models of connectors, enclosures, circuit boards using SolidWorks 2018
- Carried out DFM reviews for all product changes to accommodate for 3d printing, injection molding, 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
- 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
- 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)

Teaching Assistant Purdue University (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	Project Management	Fast Prototyping	Python	SolidWorks
	Great Communication	3D Printing	C++	Autodesk Eagle
	Organizational Awareness	Laser Cutting	Swift	AutoCAD

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)