LUIS ALBERTO ICAZA PAREDES

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Engineering   **Atlanta, Georgia**
Bachelor of Science in Mechanical Engineering   *F-1 Student Visa*   *Spring 2018*
- Minor in Computer Science - Artificial Intelligence Thread   GPA: 3.2
- International Plan Scholar

EXPERIENCE

Institute for Robotics & Intelligent Machines (Georgia Institute of Technology)   **Atlanta, Georgia**
Student Teacher / I3 Outreach Program   *October 2015 – Present*
The I3 Outreach Program focuses on assisting the next wave of technology-savvy students in underprivileged communities get a head start on coding.
- Served as the lead teacher for middle-school and high-school groups, averaging 8 hours a week of classes.
- Designed a project for the students to develop that involved proximity sensors, LEDs, alarms and an Arduino, in order to demonstrate the usefulness of loops and the interaction between inputs and outputs in a running code.
- Synthesized basic coding principles into fun and engaging class activities, so that students could observe, learn, and implement these concepts into relevant applications.

School of Public Policy – Ivan Allen College of Liberal Arts   **Atlanta, Georgia**
Undergraduate Research Assistant / Julia Ellen Melkers, Ph.D.   *December 2015 – Present*
Dr. Melkers leads research using deep data analysis on strategic development plans in order to understand what leads to innovation in STEM fields.
- Analyzing strategic development plans for the school of public policy to inquire on what the role of policy is to foment innovation.
- Utilizing in vivo deep data analytical software to extrapolate relationships between words, phrases idioms and ideas in strategic development plans of every state.

PROJECTS

Solar Racing   **Atlanta, Georgia**
Redefining the cutting edge of solar powered cars   *May 2015 – June 2016*
- Responsible for developing a better battery cooling solution for SRI that accommodated the design constraints of working on a previously designed car. Including dimension, power, weight and budget limitations.
- In charge of researching and creating the battery cooling system for SRII, a completely redesigned solution, made from the ground up to satisfy the requirements of the next generation of solar powered automobiles.

RoboJackets   **Atlanta, Georgia**
Designing the next step in robotics.   *October 2015 – Present*
- Lead a design and build team to create a small three-kilogram robot capable of surviving high levels of stress, the robot is equipped with defensive combat tools and artificially augments its weight utilizing electromagnetic phenomena.
- Competed in multiple robotics competitions including the Intelligent Ground Vehicle Competition, RoboCup, International Autonomous Robot Racing Challenge and SparkFun's Autonomous Vehicle Competition.
- Engineered multiple components for autonomous land vehicles and constructing multiple components including exoskeletons for densely packed small robots and large protective frames to support and safeguard delicate advanced electronics that provide autonomous locomotion. As well as integrating electronics design and low level programming

Bitcoin Club   **Atlanta, Georgia**
Advancing the awareness and capabilities of cryptocurrencies.   *June 2015 – Present*
- Co-Founder of the Bitcoin Club, a group dedicated to furthering the public awareness of cryptocurrencies, commonly grouped as alternative currencies (AltCoin) and researching new applications for the underlying technology of blockchains.
- Instituted discussion groups to explore the possible ramifications of cryptocurrencies in society, from the economy to politics; find uses for the technologies that support the currencies and discuss the design and creation of cryptocurrencies.

SKILLS/LANGUAGES

Technical: MATLAB, SolidWorks, 3D scanning and printing, Swift, debate, lab reports, metalworking, OMAX Waterjet, Trotec Laser Cutters, Base Bath, CNC, Lathe, Welding, Soldering
Languages: English – native, Spanish – native, French – Elementary Proficiency
Skills: Team management, public speaking, event planning, kayaking, archery