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Education

-Bachelor's degree in communications and Electronics. School of Mechanical and Electrical Engineering, National Polytechnic Institute. 2006-2012.

Social Skills

- Teamwork
- Problem-solving
- Gender inclusion
- Critical thinking about technology
- Teaching with neurodiversity perspective

Professional Experience

- Mexican Association of the Internet of Things, August 2022 – Present. Technical committee for the generation of labor standards.
- Samsung Innovation Campus Teacher 2020 – 2022. As part of Código IoT programs.
- Código IoT, November 2020 – Present. Director of Educational Content. Professor of the Internet of Things at Samsung Innovation Campus.
- Golem Ex Machina. 2019 – Present. Post-Punk Band.
- Factor Evolución, December 2018 – Present. Electronic circuit design, instructor of IoT courses oriented towards Industry.
- ENOVA, December 2018. Design of online educational content.
- Radian Mx, November 2018. Electronic circuit design and assembly.
- Estudio Ivan Abreu, January 2017 – August 2018. Electronic circuit design and programming.
- Neza RIA MakersLab. March – June 2016. Facilitator of experiences for handling programming tools, 3D printing, and laser cutting.
- Electronic Interfaces Laboratory of the Multimedia Center. National Arts Center. March 2013 – December 2016. Programming, electronic circuit design, design of mechanical parts for 3D printing, workshop instructor.

Digital Fabrication

- CNC Router, Laser cutting, 3D printing.

Software

- NI LabView, NodeRed, ExpressJS.
- Grafana, Home Assistant, OpenHab.
- NI Multisim, NI Ultiboard, Cadence OrCAD, DipTrace, Autodesk Eagle, KiCAD, 123D Circuits, Fritzing.
- Autodesk Fusion360, SolidWorks, Rhinoceros.
- Ableton Live, Adobe Audition, Reaper, PureData.
- Max, Max for Live, Max MSP, Open Frameworks.
- VCarve, Chili Pepper, RD Works, ArtCam, MatchMill, Repetier Host, Mesh Mixer, Makerbot Print.
- IAR Embedded Workbench, Code Composer Studio, Atmel Studio, IntelliJ Idea.
- Microsoft Visual Studio, Visual Studio Code, Arduino IDE, CodeBlocks, Notepad++, Atom, SublimeText, Brackets.
- ASM, C++, VHDL, Python, C#, C, C++, Rust, Java, JavaScript, NodeJS, Scratch, Logo, VisualBasic.
- MySQL, MariaDB, Firebase.

-I2C, RS232, COM, OSC, MIDI, DMX, MQTT, 4-20mA, Serial, UART.
-Adobe Premiere Pro, DaVinci Resolve.

Hardware

-Arduino, Raspberry Pi, Particle Photon, Particle Electron, MSP430, STM32, Udoo Quad, BT HC-05, BT HC-06, ESP32, NodeMCU. ESP32, ESP32CAM, ESP8266, Attiny.
-Prusa i3, Replicator z28.
-NI DAQ, Kinect, TI Launchpad, TI MSP, MicroChip PIC, Atmel ATMEGA, Spartan 3E.
-Intel Realsense.
-nVidia Jetson.

Grants

-Jóvenes Creadores, FONCA. Secretaría de Cultura. 2020.
-Programa de Apoyo a la Docencia, Investigación y Difusión de las Artes with the project Plataforma de Experimentación en Internet de las Cosas, 2015.
-Programa de Apoyo a la Docencia, Investigación y Difusión de las Artes with the project Aplicaciones de tecnologías de impresión 3D a proyectos artísticos, 2013.
-Jóvenes Creadores, FONCA. New technologies 2020

Collaboration and Events

-Woman Is Art, Warp Magazine. Collaboration with Anni Garza Lau. Melia Cabo Hotel, 2023.
-Viral, GUI/Goey Plexus Projects. Collaboration with Anni Garza Lau, Dr. Lilianha Domínguez, Yunuen Vladimir. Online, 2023.
-Viral, Vendrán Lluvias Suaves, Centro de Cultura Digital 10th Anniversary. Collaboration with Anni Garza Lau, Dr. Lilianha Domínguez, Yunuen Vladimir, 2022.
-Tiempo Transcurrido, Collaboration with Laboratorio 118. Galería del Rule, 2022.
-Jóvenes Creadores, FONCA. Síndrome de Estocolmo, original piece. Museo de San Idelfonso, 2022.
-Viral, Collaboration with Anni Garza Lau, Dr. Lilianha Domínguez, Yunuen Vladimir. Arte por La Tangente, 2021.
-Capstone Project, Samsung Innotation Campus. Project advice in collaboration with Código IoT and Dr. Paloma Vilchis. Mexico Samsung Showroom, 2021.
-Yami Ichi, Collaboration with VJ-Joyas, 2020.
-Parasitage, Collaboration with Anni Garza Lau. Museo Carrillo Gil, 2020.
-Athens Digital Arts Festival, Collaboration with Anni Garza Lau. 2019.
-Experimenta Agua, CCD, 2019.
-Sed de agua en la Ciudad de las Inundaciones, CCD. 2019.
-Congreso de Futuros, Centro de futuros. 2019.
-Arduino Day KMMX, The future of the Internet of Things, with Juan Manuel Días, 2019.
-Muro de luz, Laboratorio 118, 2019.
-Lo humano después, Anni Garza Lau. 2018.
-Sur, Ivan Abreu. 2018.
-Shell ecoMarathon Americas. Gemelatti UNAM-IPN Team 2018.
-Self Awareness, Anni Garza Lau. 2018.
-Trying to Hide the Sun with One Finger, Ivan Abreu. 2017.
-Arduino Day, Centro de Cultura Digital. Scorpion Robot, 2016.
-The Inventions of Tesla, Centro Multimedia 2016.
-The Machines of DaVinci, Centro Multimedia 2016.
-PopUp Books with Electronics, Centro Multimedia 2016.
-Ángulo Crítico Exhibition, CENART. Polarized Transmission, as part of the CMM MediaLab collective, 2015.

- Sound Equipment Design for Úmbal, Mariana Arteaga - Museo del Chopo, 2015.
- Talking Boat, as part of the CMM MediaLab collective, 2015.
- The Neutrality of the Search Engine, as part of the CMM MediaLab collective, 2015.
- Proyecta Design Fair, Oaxaca. Scorpion Robot, as part of the CMM MediaLab collective, 2015.
- Oaxaca Mini Maker Faire. Desmodium Machine, as part of the CMM MediaLab collective, 2014.
- Museum of Contemporary Art of Oaxaca, Bioartifacts: Slowly Shelling a Corn. Desmodium Machine, as part of the CMM MediaLab collective, 2014.
- Recicatech, KiCAD Circuits, Casa Talavera, 2015.
- Electronics Workshop for Skaters, Winter Lights Festival, 2013.

Taught Workshops

- IoT Code Diploma, Código IoT, 2022, 2023.
- Samsung Innovation Campus, UAM, 2020, 2021, 2022.
- IoT for Industry 2018, 2019, 2020.
- New Interfaces Laboratory, CCD, 2019.
- Experimenting with Water, CCD, 2019.
- Music with GameBoy, Faro de Aragón. 2018.
- 3D Printing for Kids, Verano STEAM CCEMx. 2018.
- Arduino: Adaptations, Centro Multimedia 2016.
- Visual Programming with Arduino, Centro Multimedia 2016.
- Digital Fabrication, 3D Printing, Neza MakersLab, 2016.
- Digital Fabrication: Laser Cutting, Neza MakersLab, 2016.
- Programming with Arduino, Neza MakesLab 2016.
- Electronic Circuits with KiCAD, Faro de Oriente, 2013.
- New Electronic Interfaces, Centro Multimedia 2015.
- How to Train Your Scorpion, Centro Multimedia 2014.
- From Schematic to PCB, Centro Multimedia 2014.
- Welding Ideas, Centro Multimedia, 2013.

Taken Workshops

- Contemporary Thought on Technique Seminar, by Bernard Stiegler. CENART 2015.
- Radical Devices Workshop: Methodologies for Technological Appropriation in Art, by Leonardo Aranda, CENART 2015.
- Interactive Electronics Workshop for Artists and Inventors, by Ken Rinaldo and Mark Gunderson. CENART 2014.
- Makerton Wear+D, e-body, Centro de Cultura Digital, 2014.

Current Projects

- Muses of AI, 2023 - present.
- The Paradox of Hairstring GPT, 2023 - present.
- Golem Ex Machina, Post Punk Rock Band, 2019 - present.
- Stockholm Syndrome, 2020 – present.