

CURRICULUM VITAE

Juan Noguera is an Industrial Designer and Educator. He holds a Masters of Industrial Design (MID) from the Rhode Island School of Design (RISD) and a Bachelors of Industrial design (BID) from Universidad Rafael Landivar, in Guatemala city. A Guatemalan, he was raised in a colorful and vivid culture. He quickly developed an interest in how things were made, tearing everything he owned apart, and putting it back together, often with a few leftover pieces. After graduation and a succession of projects related to design for development, Juan was chosen as a Fulbright fellow for the class of 2013 by the U.S. Department of State. He went on to be the lead designer for Voxel8, helping create the world's first 3D Electronics printer. He is currently a Product Design professor at MICA in Baltimore, Maryland. Juan was awarded as one of MIT Technology Review's "Innovators under 35" LATAM in 2017.



EDUCATION

September 2013 - May 2015

Rhode Island School of Design (RISD)

Masters of Industrial Design (MID)

September - November 2010

Central Training Center, Taichung, Taiwan. Industrial training program: "Design and manufacture of plastic injection moulds, with special focus on computer-aided design and CNC machining".

January 2005 - October 2009

Universidad Rafael Landivar, Guatemala City. Bachelors in Industrial Design (BID, 5 year). Magna Cum Laude

2001-2004

Colegio Lehnsen, Guatemala city. Baccalaureate, computers and programming.

AWARDS

November 2017

One of the "35 Innovators Under 35"
MIT Technology Review LATAM

September 2013 - May 2015

Fulbright scholar
Granted by the U.S. Department of State.

September 2013 - May 2015

RISD President's Scholarship
Granted by RISD President John Maeda



EXPERIENCE

July 2019 - Present

Product Design Professor - Maryland Institute College of Art (MICA) - Baltimore, Maryland, USA

Full time professor for MICA's new Product Design Bachelor's program, creating new courses, workshops and curriculum in the areas of Social Innovation, design for manufacturing and prototyping.

July 2016 - July 2019

Director of Product Design - Universidad Francisco Marroquín - Guatemala city, Guatemala

Chair position for the Bachelors in Product Design program. Administrates all areas of the program, designs curriculum and teaches in the areas of rapid prototyping, product ideation and multi-disciplinary collaboration.

June 2015 - July 2018

Lead Industrial Designer - Voxel8, Inc. Somerville, MA, U.S.A.

Collaborates with a team of Mechanical, Electrical and Software engineers in the design of 3D Printers, and their entire user ecosystem, comprised of hardware (design for manufacturability) software (User Interface/Experience Design) and visual image (Graphic design, packaging). Helped design the Developer's Kit, the world's first 3D Electronics printer, and now works with the applications team in the creation of industry-leading additive manufacturing solutions.

July 2016 - Present

Lead Product Designer - Electroninks Incorporated

Helped launch the "Circuit Scribe" educational toy platform after a successful Kickstarter campaign, creating a product line that has successfully been sold in retail stores around the world and that has been the recipient of numerous toy awards.

June 2014 - August 2014

Design internship - Harvard School of Engineering and Applied Sciences

Worked in a multidisciplinary research and development environment in the creation and visualization of novel 3D printing technologies and products under the guidance of Professor Jennifer Lewis. Collaborated with both mechanical engineers and computer science specialists within the Lewis research group.

January 2011 - August 2013

Core Faculty, Universidad Rafael Landivar, Guatemala city.

Teaching and assisting in product design / manufacturing courses as well as ergonomics and human factors.

March 2011 - September 2012

Design without Borders, Oslo, Norway.

Designer, part of an interdisciplinary team working in Antigua Guatemala. Created wheelchairs for children with special needs, suited for the developing world. Designed products through co-creation with local technicians, working with a local non-profit.

June 2009 – March 2011

Intelligent Mobility International.

Project coordinator and lead designer for Guatemala. Wheelchair and mobility product design, production and distribution. Collaborated with a local non-profit and CALTECH Alumni.

August 2008 – December 2008

Transdisciplinary studio sponsored by the Art Center College of Design, the California Institute of Technology (CALTECH) and Universidad Rafael Landívar. Led by professor Kenneth Pickar in the creation of basic solutions for developing world countries, in specific the rural Mayan villages of Guatemala. Created wheelchair designs for the mobility project within the studio.

March - April 2010

Callidai motor works, Chennai, India.

Aided in the design transfer process introducing the “intelligent mobility” wheelchair to local Indian industry. Worked closely with Indian engineers and entrepreneurs.

July - August 2010

Universidad Rafael Landívar, Guatemala city.

Faculty, “Presentation software 3” course. Taught students the use of 3d rendering software: Autodesk 3d Studio Max ® for basic product and environment modelling, lighting and animation.

January - June 2010

Universidad Rafael Landivar, Guatemala city.

Faculty, "Typography and design" course. Led design students in the use of graphic design software and applications in products and advertising.

January - June 2010

Universidad Rafael Landivar, Guatemala city.

Teacher's assistant, "Project 4" course, In collaboration with the Art Center College of Design. Through a series of videoconferences aided students in the creation of products and solutions for artisans in villages around Lake Atitlán.

August - November 2009

Universidad Rafael Landivar, Guatemala city.

Teacher's assistant to Ovidio Morales, Dean of Architecture and design at Landivar, and Ken Pickar of the California Institute of Design, in the course "Product design for the developing world".

November 2008 – May 2009

Intelligent Mobility International.

Wheelchair and mobility products concept designer.

March - June 2007

Colgate-Palmolive corporation, Guatemala city

Studied existing safety signage system and developed a new one up to ISO/ANSI standards in order to standardise the visual identity of Colgate's production plant. Worked alongside engineers and industrial safety specialists.

September 2006 - October 2008

NeeditUK, Essex, England.

Freelance web/interface Designer working from Guatemala.

March - August 2006

ITImpact, Chicago, Illinois.

Graphic and web Designer working from Guatemala.

CONFERENCES / SUMMITS

April 2013

Rethink Relief, Organized by MIT and TU Delft (Netherlands)

Held at the Massachusetts Institute of Technology, focused on creating solutions, systems and products for both short and long term relief efforts in emergency or conflict situations worldwide.

July 2012

International Development Design Summit (IDDS) Organized by MIT

(Massachusetts Institute of Technology D-Lab). Held at the University of Sao Paulo campus in Brazil. part of a multidisciplinary organizing team aiding in logistics, curriculum delivery and design workshops.

July 2011

International Development Design Summit (IDDS) Organized by MIT

(Massachusetts Institute of Technology D-Lab). Held at the KNUST Campus in Kumasi, Ghana. Worked in a multicultural environment in the creation of a portable bamboo treatment pump, as well as products manufactured from bamboo to introduce this renewable material to the local market.

July 2010

International Development Design Summit (IDDS) Organized by MIT

(Massachusetts Institute of Technology D-Lab). Held at the Colorado State University campus in Fort Collins, CO. Worked in a multicultural environment in the creation of an inexpensive household water filtration system for women in rural India.

SKILLS

Conceptual design, rapid 3D modeling, photography, image editing and retouching, rapid prototyping, general woodworking, fine wood carving, metalsmith work, welding (arc/mig). Fluent in Spanish and English.

SOFTWARE

Cross-platform proficiency:

Autodesk Fusion360, Luxion Keyshot, Adobe Photoshop, Autodesk Autocad, Autodesk 3d studio Max, Rhinoceros, Adobe Acrobat Professional, MS Office suite, iWork and iLife suites, MasterCAM.

Familiar with:

Adobe InDesign, Illustrator, PRO/Engineer, Dassault SolidWorks

EXHIBITIONS

2013

First Annual Industrial Design exhibit (Collective)

Exhibited “muu” electric violin and “o`li” travel ukulele at the Museum of Modern Art in Guatemala city.

2012

“Design uten grenser” exhibition - DoGA (Oslo, Norway) (Solo)

Exhibiting appropriate wheelchair designs for children

2011

VitrinArte - Guatemala city. (Collective)

Local street-art exhibition featuring stringed instruments designed by Juan Carlos.

2010

Madrid design biennale - Madrid, Spain. (Collective)

Featured electric violin prototype (“MUUT”)

2010

“Guate es Arte” - Guatemala city. (Solo)

Television feature about stringed instrument construction

2008

expoADIG - Guatemala city (Collective)

Featured wheelchair designed for developing countries, for Intelligent Mobility International.

AWARDS / PUBLICATIONS

2013

Runner-up, Core77 Design Awards

Social impact category, First appropriate “Tilt-in-space” wheelchair for children in Guatemala.

<http://www.core77designawards.com/2013/recipients/wheelchair-children-guatemala/>

2015

Feature - 3DPrint.com (Solo)

“Voxel8 Designer 3D Prints an Incredible Electric Ukulele & You Can Too!”

<https://3dprint.com/63412/3d-printed-electric-ukulele/>

2015

Feature - Geek.com

“Voxel8 3D printer can print a complete quadcopter, including the circuits”

<https://www.geek.com/chips/voxel8-3d-printer-can-print-a-complete-quadcopter-including-the-electronics-1613166/>

2015

Feature - DigitalTrends.com

“Will you print your next PC? A reality check on 3D-printed electronics”

<https://www.digitaltrends.com/computing/voxel8s-new-3d-printer-can-build-electronics/>

2015

Feature - Gizmodo.com

“This \$9K Machine Could Usher in the Era of 3D-Printed Electronics”

<https://gizmodo.com/this-9k-machine-could-usher-in-the-era-of-3d-printed-e-1677580682>

2016

Feature - Engineering.com

“Voxel8 Ships First Electronics 3D Printer to Google ATAP”

<https://www.engineering.com/3DPrinting/3DPrintingArticles/ArticleID/12282/Voxel8-Ships-First-Electronics-3D-Printer-to-Google-ATAP.aspx>

2017

MIT Technology Review “35 Innovators under 35”

Chosen as one of the “35 Innovators under 35” Latin American award winners for 2017.

<https://www.innovatorsunder35.com/the-list/juan-carlos-noguera/>

2017

Feature - “Dark Matter” (SyFy Network)

“Nuke” 3D Printable Electric Ukulele featured in the SyFy series “Dark Matter” Season 3, Episode 4, played by Actress Zoie Palmer. <https://www.imdb.com/title/tt6072914/>

AWARDS / PUBLICATIONS

2017

TOTY (Toy of The Year) Awards - Activity toy of the year (Nominee)

“Circuit Scribe” Maker Kit nominated for activity toy of the year alongside world renowned brands such as Crayola, K’NEX and Lionel Brands - https://www.toyfairny.com/Events2/TOTY_Awards/2017_TOTY_Winners.aspx

2017

Academics' Choice Award™ Winner

“Circuit Scribe” Maker Kit winner for the 2017 Brain Toy of the year.

<http://www.academicschoice.com/toys/maker-kit.php>

2017

Feature - TechAeris Gadget & Toy Reviews

“Circuit Scribe review: Learn circuits with pen and paper” Feature on the TechAeris.com website.

<https://techaeris.com/2017/01/17/circuit-scribe-review-learn-circuits-with-pen-and-paper/>

2017

Creative Child Award™ 2017 Kid's Product of the Year

“Circuit Scribe” maker kit winner in the Category: Educational & Electronic Toys.

<https://awards.creativechild.com/product/1866-circuit-scribe-maker-kit>

2018

Wired Magazine - “13 Smart STEM Toys for the Techie Kids in Your Life”

“Circuit Scribe” Drone Builder kit listed as one of 2018’s top tech toys.

<https://www.wired.com/gallery/best-stem-toys-for-kids/>

2018

Profiled by Guatemala.com (Spanish)

“Life of Juan Carlos Noguera, creator of the world’s first multimaterial printer”

<https://aprende.guatemala.com/historia/personajes/biografia-juan-carlos-noguera/>

2018

Profiled by Prens Libre.com (Spanish)

“Juan Carlos Noguera, an innovative and brilliant Guatemalan”

https://www.youtube.com/watch?v=nqL6wybE_24