## MARINA RTH FOUNDATION

## 2019 ANNUAL REPORT EDUCATING FOR THE FUTURE



# CONTENTS

1	2	3	4
Our Team, Heart, The Foundation in Numbers	Present at Every Stage	Our Programs	Recognition
5	6	7	8
Events and Fairs	Our Children and Youth	Our Financial Management	Our Team

#### **ADMINISTRATIVE TEAM**

Paula Marin Ortiz Executive Director

Carlos Mario Alzate Alvarez Administrative and Financial Director

Natalia Mazo Agudelo Academic Director

Adriana Quintero Chica Scholarhips and Vocational Training Coordinator

Auditamos Gaviria y Asociados Accountant

Pricewaterhouse Coopers Fiscal Auditor



## FOUNDER Maureen Orth

## BOARD OF DIRECTORS

Maureen Orth Luz Elena Rada de Cock Eugenia Maria Londoño Escobar Carlos Eugenio González Echeverri Juliana Velásquez Rodríguez Miguel Piedrahita Soto

# Our Heart

At the Marina Orth Foundation **we believe education is the best way to empower our youth to build their own futures.** We want them to help close the gap of inequality and contribute to the development of Colombia.

We are a non-profit organization working to support underprivileged youth in public schools in and around Medellín, Colombia. We promote gender equality, bilingualism, technology, robotics, and leadership. Our mission is to give our students and teachers the necessary tools to compete in the 21st Century.

We specialize in the use of technology in the classroom, promoting the students' ability to explore, to be creative and to learn independently. In our STEM and robotics programs we emphasize a community problem-solving approach. We believe that developing socio-emotional abilities in and out of the classroom is important in order to train our students and teachers to be more creative and competent.

### WE INVITE YOU TO BE PART OF OUR DREAM TO BUILD A FUTURE WHERE ALL CHILDREN HAVE THE TOOLS TO SUCCEED.

# **Teacher Training**

IN 2019, WE TRAINED TEACHERS IN TECHNOLOGY, ROBOTICS, ENGLISH, AND SOCIO EMOTIONAL ABILITIES.

175 In Technology

In Socio Emotional Abilities In English

18 In STEM and Robotics

HEILOI

# Social Impact/ Area of Influence

We teach English to children and adults alike at the free public "education park" in the rural town of El Carmen de Viboral.

90% Of impact is in rural areas.

## 18

Public schools both in Medellin and in El Carmen de Viboral.

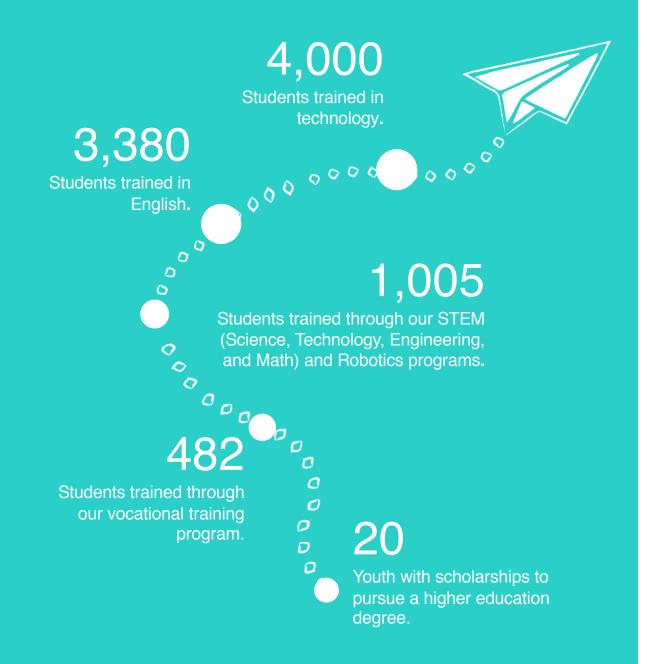


We have introduced XO laptops in Nuqui, Choco, on the Colombian Pacific coast, one of the most neglected areas of extreme poverty in Colombia.

## THE FOUNDATION IN NUMBERS

WE ARE CONVINCED THAT LEARNING ENGLISH, TECHNOLOGY AND LEADERSHIP FORMS CITIZENS FOR THE 21ST CENTURY.

## Impact on Students:



# WE ARE THERE AT EVERY STAGE FROM K-11 AND BEYOND.

The Marina Orth Foundation works with children from kindergarten through middle school and high school. **These are youth who rarely have access to higher education, and who may frequently end up unemployed.** We meet our students where they are academically and develop programs to promote and strengthen their learning skills, both inside and outside the classroom.

- Integrated robotics and STEM projects
- Contextualized English programs
- Articulation of soft skills
- Direct approach to technology training
- Vocational guidance
- Special programs like SparkTic: technology skills for uneducated and unemployed people
- We sponsor university scholarships

## BEYOND FORMAL CLASSROOM LEARNING WE AIM TO TRANSFORM OUR STUDENTS' LIVES SO THEY MAY CONTINUE TO DEVELOP INDEPENDENTLY.

## WE WERE THE ONLY EDUCATION FOUNDATION INVITED TO THE MAYOR'S "MEDELLÍN ABRAZA SU HISTORIA"



We were special guests at "Medellín Abraza su Historia" (Medellin, Embrace your History) recognizing those who contributed to the peace process of Colombia. To commemorate the victims of violence and the inauguration of a park, on the site of Pablo Escobar's old building, Mayor Federico Guiterrez, recognized our founder with a medal for her contribution to peace in such difficult and violent times.



## RECOGNITION



**Special recognition by the ACI** – International Cooperation of Medellin Agency – for our contribution to the realization of the Millennial Sustainable Development Goals.

# WE'RE MAKING A CONTRIBUTION TO THE COUNTRY'S GDP!



# OUR PROGRAMS AND SPECIAL PROJECTS

OUR PROGRAMS ARE FOCUSED ON TECHNOLOGY, ROBOTICS AND ENGLISH. We work for the inclusion of girls in tech and we contribute to the development of rural areas.



### Science, Technology, Engineering, and Math

Our model program to give teachers the necessary and innovative tools to develop STEM projects inside the classroom, using robotics as a means to motivate the interest and curiosity of students.





# WE WANT TO CHANGE THE TRADITIONAL EDUCATION MODEL THROUGH STEM

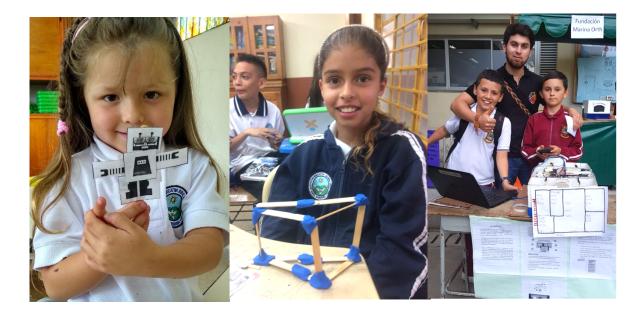
# **Robotics Program:**

Our award winning students, who have earned international recognition, learn while creating robots that solve problems in their communities. They improve their English skills and develop abilities that help them compete worldwide.

WE'RE TRAINING A GENERATION OF CODERS, INVENTORS AND GENIUSES. They will be the leaders of their communities and will contribute to the development of their country.

#### SKILLS DEVELOPED IN THE PROGRAM:

**English, Team Work**, **Creativity**, Problem Solving, Communication, and Critical Thinking.



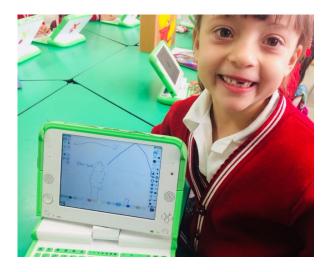
40% of the students in our program are girls.

850 Students in Robotics. Robotics in isolated rural schools.



# IT Program

We connect children belonging to rural communities and others who live in some of the most remote areas in the country, so they and their families can see and **use a computer for the first time.** 



**1,519** laptops in operation, given to each one of our students.

We contribute to closing the technological gap.

We provide offline resources.

We reduce educational inequity.

## WE SPECIALIZE IN USING TECHNOLOGY SO CHILDREN LEARN BETTER AND FASTER.

# **English Program:**

# WE CONTRIBUTE TO THE BILINGUALISM OF THE COUNTRY!

Through co-teaching, our foreign volunteers work side by side with both teachers and students to help improve English skills. Every day we see the results of our students embrace of bilingualism that opens their world and creates great opportunities for them.





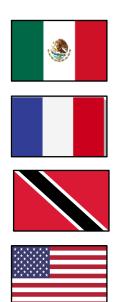
2,722 benefited in and out of the classroom

274 participants in bilingual culture classes

10 native English speaking volunteers

OUR ENGLISH SCHOLARSHIP HOLDERS REACH OFFICIAL B1, B2 INTERMEDIATE AND UPPER INTERMEDIATE LEVELS.





## Volunteers:

Thanks to the dedication and generosity of more than 10 international volunteers, our students and teachers had the opportunity to improve their level of English and to have multicultural experiences throughout the year. Our volunteers live in our communities, motivating and sharing with our students their culture and global vision.

# Training girls and young women in technology



For the second year in a row the Marina Orth Foundation was chosen to train 100 young women from vulnerable areas in Medellín in technology skills. *Proyecto Mujeres en Tecnología* was a partnership with Ruta N, the city backed innovation center of Medellín, tech giant Motorola, and the Makaia Foundation.

## **Vocational Guidance Program:**

In partnership with the Corona Foundation, we offer our students guidance counseling for their academic careers and futures, supporting them from high school to college and in vocational training.



## IN 2019 WE GUIDED 482 STUDENTS

In the last three years **we have trained more than 1,000 students** and last year 87% of our seniors chose to go on to college.

## **University Scholarships Program**

**Our goal is for thousands of our students to have access to higher education.** Despite the challenge of coming from under-served public schools our students have displayed their resilience, their brilliance and their ability to compete at the university level. There is no doubt how much these Marina Orth Foundation scholars will contribute to the future of their country.

20 ACTIVE SCHOLARSHIP HOLDERS IN 2019. THE MARINA ORTH FOUNDATION HAS HELPED OVER 70 SCHOLARS TO BE THE FIRST IN THEIR FAMILIES TO PURSUE HIGHER EDUCATION.



## AND WE GOT TO CHOCÓ!

We set our eyes on a forgotten place where few dare to go: a place with no portable water and sporadic electricity but with children who are full of happiness and light. Our first challenge was to introduce computers to the teachers, most of whom are over 50. Our next big step to start the change and transformation of the whole community was to work with both teachers and students inside and outside the classroom. We even started two robotics clubs!



More than 400 XO-OLPC LAPTOPS HAVE BEEN GIVEN TO STUDENTS AT the Ecoturistica Litoral Pacífico School, in Nuquí – Chocó

## **Big Winners 2019!**



WE PLACED IN THE **TOP 10 OUT OF 55** COUNTRIES THAT PARTICIPATED IN THE ROBOTEX WORLD CHAMPIONSHIP IN ESTONIA



OUR STUDENTS WON <mark>4 OF 5 AWARDS</mark> AT THE SOCIAL POWER INNOVATION EVENT



OUR FIRST LAWYER. He wrote a book!



OUR FIRST ENGINEER



HIGHEST GRADE POINT AVERAGE FOR ENGLISH LANGUAGE MAJORS



WE WON SECOND PLACE COMPETING AGAINST 200 PARTICIPANTS IN CT+1!



SECOND AND FOURTH PLACE IN ROBOTEX LATAM



ONE OF THE 60 PROJECTS SELECTED OUT OF 300 AT THE SOLAR EPM CIRCUIT



FOURTH PLACE IN THE WEEK OF ROBOTICS AND INNOVATION



# INTERNATIONAL AND LOCAL EVENTS

WE GIVE STUDENTS AND TEACHERS THE OPPORTUNITY TO PARTICIPATE IN EVENTS AROUND THE GLOBE IN TECHNOLOGY, ROBOTICS AND ENGLISH. WE HELP OUR STUDENTS OPEN THEIR MINDS AND DREAM BIG.

## Robotex World Championship In Tallin, Estonia

In November, Daniela Vilada, Juan Esteban Moreno, and Oscar Caly, students from the Santa María School in El Carmen de Viboral, along with their coaches, Natalia Mazo and Andres Aristizabal, **traveled to the Robotex International championship**, in Tallin, Estonia, to **represent Colombia and the Marina Orth Foundation**.

#### WE GOT TO THE TOP TEN OF 55 COUNTRIES!

Our team had a life-changing experience, motivating them to continue their training and to inspire other students who see them as role models and give them hope so they can make their future dreams come true.



# OUR CHILDREN AND YOUTH PARTICIPATE WITH HONORS IN INTERNATIONAL AND LOCAL EVENTS

## We won 4 of 5 awards at Social Power Innovation Fair!



Marina Orth Foundation students swept the Social Power Innovation competition in Medellín. Hosted by Mesa TI, a coalition of private school leaders, the event featured students from throughout the city and challenged them to use technology to solve problems in their local communities.

## STUDENTS FROM OUR RURAL SCHOOLS: LA AURORA, LA RIVERA AND MARINA ORTH WON 4 OF THE 5 AWARDS.

# Marina Orth students win second place at CT+I Fair

A group of young girls from Marina Orth Foundation robotics clubs won a coveted second place award in the research project competition for their automated planter box at the CT+I "Science Technology + Innovation" fair, hosted by Medellín's free tech instruction center Parque Explora and the mayors of Antioquia. The prestigious fair hosts hundreds of students from mostly private schools around Colombia, where young engineers are invited to share research proposals and projects.

Marina Orth Foundation students contributed five projects to the fair, three from Santa Juana de Lestonacc School in Medellín and two from La Aurora School and Rivera School, both from El Carme de Viboral. Two of these projects reached the finals among more than 200 initiatives from public and private schools in the area.







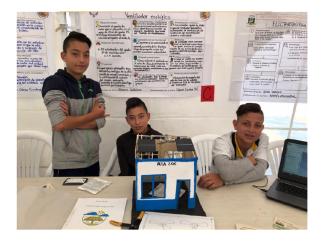
## Solar EPM Circuit

Organized by both EPM (Public Services of Medellin) and the Parque Explora, in which both public and private schools from all over the state of Antioquia compete. All students presented a research project to build a solar car with some given electronic devices. Of the 300 proposals evaluated throughout the year, only 60 are selected and our 10th and 11th graders from the Santa Juana de Lestonnac school and La Aurora school both made it to the selected group.



AMONG 300 PROJECTS, WE WERE PART OF THE GROUP OF THE 60 SELECTED!





# STEM Fair 2019: teachers, talent, and community



Led by the Marina Orth Foundation, this event showcases all the projects created by our students. These projects designed to solve community needs, were the product of the work we do with 700+ girls and boys in our robotics clubs.

DURING THIS FOURTH ANNUAL VERSION OF THE EVENT, 25 PROJECTS FOCUSED ON SOLVING PROBLEMS RELATED TO AGRICULTURE, SOCIETY AND EDUCATION WERE PRESENTED.

HIGHLIGHTED PROJECTS:



Automatization of scissors for cutting flowers



Light for the rural areas through robotics



Automatic emptying system for urinals



Plant! Air cleaning

## **Robotex** LATAM

National robotics championship, in which participants knowledge of coding, mechanics and electronics and their ability to face different challenges are put to the test. Two teams from the IE Santa Juana and IE Santa María schools participated in the same category, winning both second and fourth places.

### WE WON SECOND AND FOURTH PLACE IN A NATIONAL COMPETITION



## Robotics and Innovation Week 2019



This event is organized by the Pigmalión robotics company, where schools, universities, private companies and individuals meet to share and test their knowledge of robotics. This was the fourth time we participated; we had two teams from the La Aurora School competing for the first time and one from the Marina Orth School. Marina Orth School won fourth place in their category.



## Our Girls Role Models at Tech Opportunities Fair

Chosen to be role models for girls in tech were members of the Santa Junta de Lestonnac School champion robotics club. They spoke at the certification ceremony for 100 girls and young mothers trained by the Marina Orth Foundation in tech in partnership with Ruta N, Motorola and the Makaia Foundation.

# PAULINA CERON, 13, OF SANTA JUANA DE LESTONNAC SCHOOL TOLD THE AUDIENCE SHE ASPIRES TO BE A WOMAN LEADER IN TECHNOLOGY SOME DAY.







## Students Excel in English Spelling Bee

On stage at Marymount School fifth grader, Magdiel Daniela Sosa from Santa María school, took to the mic to spell her final word "bike"; after reading out the last letter in English Magdiel soaked up the applause as she took first place at the Maureen Orth Foundation's 6th annual English Spelling Bee.



3rd place: Ana Sofía Restrepo Cifuentes Santa Juana de Lestonnac School





# STEM 2019 Forum

WE WERE ONE OF FOUR SPECIAL GUESTS TO SHARE THE STRATEGIES USED IN OUR CLASSROOMS AND THE SUCCESS RESULTING FROM A GOOD PROCESS.

Led by the Secretary of Education of Medellin, the STEM 2019 Forum promotes the betterment of education through the exchange of ideas. We were invited to participate on the panel "Good practices in the training of teachers for STEM+H projects", along with the Director of Education of the CTA (Center of Science and Technology of Antioquia) and the director of the Parque Explora.



## Our teachers largest group trained in social emotional skills



Ninety-six teachers from Marina Orth Foundation schools participated in the first social emotional skills training course led by Co School, a soft skills training group, and held at MOVA, the city of Medellin's teacher-focused innovation center. The workshop helped 250 teachers refine their emotional intelligence, listening and soft-skills, an effort that is hoped will not only help the teachers personally but will also lead to a more positive classroom environment.

# SOCIAL EMOTIONAL LEARNING IS A WINNER FOR OUR TEACHERS IN THE CLASSROOM.

# Our first vacation camp a big success!



The Marina Orth Foundation partnered with art school ArteLírica, Llano Grande, to offer for pay vacation robotics classes for children 8 to 13 years old. By using the same project based learning that has made our robotics clubs champions in international competition, the workshop was not only a successful experiment for a future sustainable business model but delighted the children and parents alike with its focus on creative problem-solving, design and basic robotics.

### OUR PROTOTYPE OF A SUSTAINABLE COURSE WAS A SUCCESS!

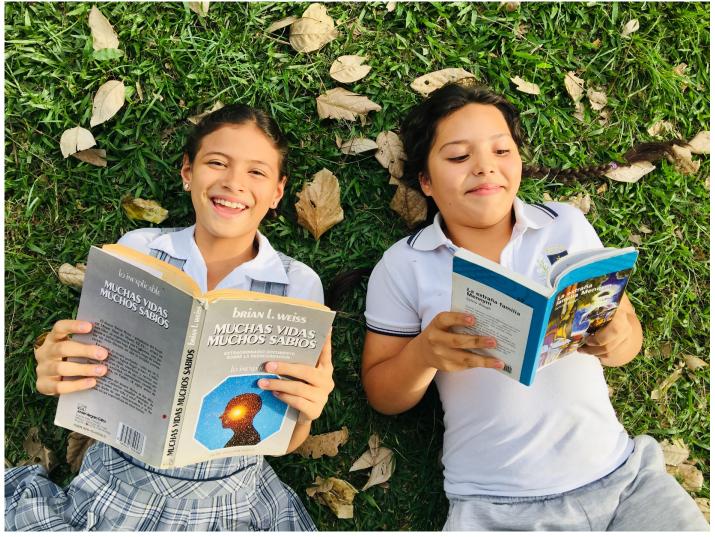
## A visit from the American Embassy

Mr. Xavier Billingsley - Foreign Service Officer (Diplomat) at U.S. Department of State paid us a visit on November 23rd, 2019. He came to learn about our experience with robotics and to watch the practice of our team headed to Robotex International, in Tallin, Estonia.









# **OUR STUDENTS**

OUR TEACHERS AND STUDENTS USE TECHNOLOGY IN THE CLASSROOM 50% MORE THAN THE AVERAGE FOR LATIN AMERICA.

# ROBOTICS



## LUIS LÓPEZ NARANJO (3RD GRADER DIAGNOSED ON THE AUTISM SPECTRUM)

"My experience in robotics was a lot of fun. It was also very exciting because I had never worked on a robotics project. It made me very happy to be able to help Mr. Arnulfo so he could have electricity in his house. I was very nervous because I had never heard my voice recorded before but my classmates told me I have a very nice voice!"

### SOFÍA MONSALVE AGE 14

"I've been in the robotics club for two and a half years, and I've been able to meet many people in many places. At the beginning I thought robotics was very hard and that I wouldn't fit in easily, but time has shown me that even though it is difficult, you only need the desire to learn. I have learned to keep working and not give up so easily."



# ENGLISH



#### PAULINA QUINTERO Age 13 - FROM EL PROGRESSO SCHOOL

"Five years ago I started participating in the clubs offered by the Foundation -- robotics, English, coding, as well as the Spelling Bee. In 2015 I won a scholarship to improve my English and I'm currently in level 9, that being the equivalent to B1. I'm very proud of how far I've gotten, because I want to be a doctor and I know English will help me a lot in order to achieve that. Thank you, Marina Orth Foundation."

#### MAGDIEL SOSA ALAE Age 13 - FROM SANTA MARIA SCHOOL

"Being able to participate in the English Spelling Bee was a really cool experience. Thanks to the dedication of my teachers as well as my own, I was able to win. But I always knew that winning wasn't what mattered; it was participating, having fun and, above all, learning something new."



FIRST PLACE IN THE ENGLISH SPELLING BEE 2019!

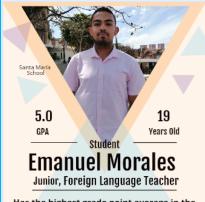


# NUQUÍ

#### DANIEL MORENO VALOIS Age 10, Ecoturistica Litoral Pacifico School

"First of all, I want to thank the Marina Orth Foundation for giving us our laptops so we can learn better, be better in school and in our personal lives. I know that my classmates and I are very

## Our University Scholarship Recipients



Has the highest grade point average in the School of Foreign Languages, Universidad Catholica de Oriente. Emanuel chose to give back to his high school, Santa Maria, by doing his teaching internship there and he is a leader in community English tutoring.



Won an internship with the Medellin City Council for her academic excellence where she works in gender equality.



Chosen by the elite Marymount School to be their substitute English teacher for her teacher training. Valentina has also taught robotics and tutors other students in English on all levels.



#### Valentina Peláez Sophomore, Agroecology

Passionate organic farmer. Valentina has always loved nature and the environment. Her mission is that healthy food be accessible to all.



The Marina Orth School computer and tech clubs awakened Juan Camilo's love of math and his desire to become a systems engineer. He studies at the Metropolitan Technical Institute, Medellin.



Nature lover keen on defending and caring for the environment specializing in sanitation and public health



Marlon Castrillón Sophomore, Systems Engineering

Marlon discovered his passion for programming and robotics in the foundation's robotics clubs and is pursuing a degree in Systems Engineering at Metropolitan Institute of Technology



## Some of our great scholars!

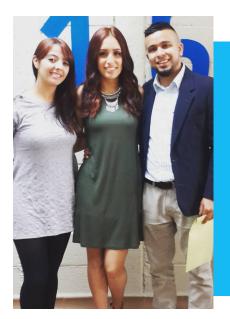
## CINDY QUINTERO, AGE 23

GRADUATE MARINA ORTH SCHOOL, JUNIOR - COMMUNICATIONS UNIVERSIDAD CATÓLICA LUIS AMIGÓ

"I have been able to intern at two of the places where I have dreamt of working: one is the Women's Justice Collective Corporación where I am now working for the Medellin City Council. Thank you, Marina Orth Foundation."



SHE'S CURRENTLY WORKING AT THE Medellín city hall



VALENTINA ORTIZ, ÁGE 20 Graduate Marina Orth School, Junior - Foreign Language Teacher Universidad Católica Luis Amigó

"I'm currently doing my practice teaching at the private Marymount School, where I am a substitute English teacher. During my practice teaching, I want to be a model representative for both the Foundation and my University. I want to thank the Marina Orth Foundation for giving me the opportunity to grow and develop my career and aspirations. God bless you."

#### **EMANUEL MORALES, AGE 19** Graduate Santa Maria School, Junior - Foreign Language Teacher Universidad Católica de Oriente

"I have decided to do my practice teaching at the same school I went to, so I can contribute to the learning process of the boys and girls, and to strengthen English in and out of the classroom. I love teaching and learning foreign languages. I thank the Marina Orth Foundation for its constant support and guidance."



EMANUEL HAS THE HIGHEST G.P.A. IN THE SCHOOL OF FOREIGN LANGUAGES

# OUR GRADUATES 2019



### MARLON VARGAS PATIÑO OUR FIRST LAWYER!

"In my case, the Marina Orth Foundation was able to close the gap for me between what I really wanted to do with my life versus just being able to survive. Thanks to the foundation and to my mentors, former Peace Corps volunteer Howard Ellegant and Carol Ellegant, today I have the possibility to choose my destiny and to take risks knowing that within myself I have what I need to fulfill my dreams."

Graduate of the Universidad Pontificia Bolivariana Law School, and English C1 level. He wrote his first book about the armed conflict in Colombia and interned on Capitol Hill in the Congress of the United States of America.

## CARLOS VILLA COSSIO OUR FIRST MECHANICAL ENGINEER!

Graduate of Universidad EAFIT in Mechanical Engineering, thanks to the scholarship given in memory of Steve Bergren, a former Peace Corps Volunteer who came to Colombia to teach engineering in the 60's. Carlos worked very hard and met the academic and social challenges of the environment of a private University after having attended a public school in a rural area of Medellín.



## OUR GRADUATES 2019



#### MÓNICA ORTIZ ÁLVAREZ BIOMEDICAL ENGINEER

Graduate of the Metropolitan Institute of Technology of Medellin. She's our second female graduate in bio-tech and had an excellent performance throughout her academic career.



## JULIÁN GÓMEZ RAMÍREZ Foreign languages Degree

Graduate of the Universidad Católica de Oriente and Student Body President. Julian's passionate about cultural diversity. He was a featured speaker at the *Narraciones de Libertad*, an major event organized by the university every year.



## JESÚS ANTONIO VALENCIA Agronomist

Graduate of the Universidad Católica de Oriente. He did his internship at Uniflor, a large flower growing business in Rionegro, Antioquia, where he was offered a permanent position.

#### DEISY GIRALDO CASTRO NURSE

Graduate of the Universidad Católica de Oriente. In the Top 5 of her class, she did her residency at San Vicente Fundación Hospital.



#### <u>Erika Johana Zuluaga</u> Nutritionist

Graduate of the Universidad Católica de Oriente. She's passionate about community service. She did her internship at the **Universidad del Valle de Atemajac, en Guadalajara, Mexico.** 



### JULIANA QUINTERO ARBELÁEZ Foreign Languages Degree

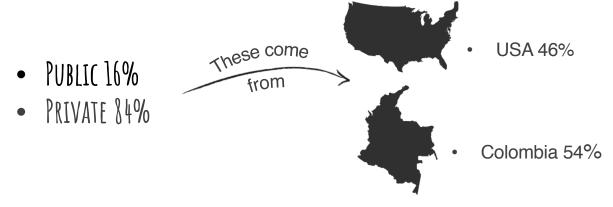
Graduate of the Universidad Católica de Oriente, and an English scholarship recipient.



### WE ARE PART OF PRIVATE/PUBLIC PARTNERSHIPS

Thanks to our allies, our income during **2019 was of COP\$1.236** million (USD\$412,000).

Composition of income:



And during 2019 this was invested as follows:

66% PROGRAMS (ENGLISH, ROBOTICS, STEM): Students Training: **31%** Teachers Training: **19%** Nuquí Project**: 8%** Scholarships: **8%** 

34% was used for administration, operation and execution costs of the programs and projects.

# OUR FINANCIAL MANAGEMENT



## **OUR TEAM**



# **OUR PARTNERS**

















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