

THE MARVELS

**A ROBOTICS INITIATIVE FOR
A NEW GENERATION OF
OUR MUSLIM YOUTH**

Dr. Mohamed Ebeida

**A research scientist and the head coach of
The Marvels - Champions of NM regionals**





DR. MOHAMED EBEIDA

WWW.MSEBEIDA.NET



- ▶ Born in Alexandria, Egypt. Came to the U.S. in 2005.
- ▶ A research scientist at Sandia National Laboratories since 2010.
- ▶ PhD in Aeronautical Eng. (UC Davis), 2008.
- ▶ MSc In Applied Math (UC Davis), 2009.
- ▶ Postdoctoral fellow at Carnegie Mellon university (2008 – 2010).
- ▶ 50+ publications, sole inventor on 4 patents.
- ▶ Founded a robotics program at the Islamic Center of New Mexico. Formed several award-winning Muslim teams in international competitions

OUR MUSLIM YOUTH

RAISING A GENERATION OF PROUD CAPABLE MUSLIMS THAT
RECOVER THE LEADERSHIP ROLE OF THE ISLAMIC CIVILIZATION

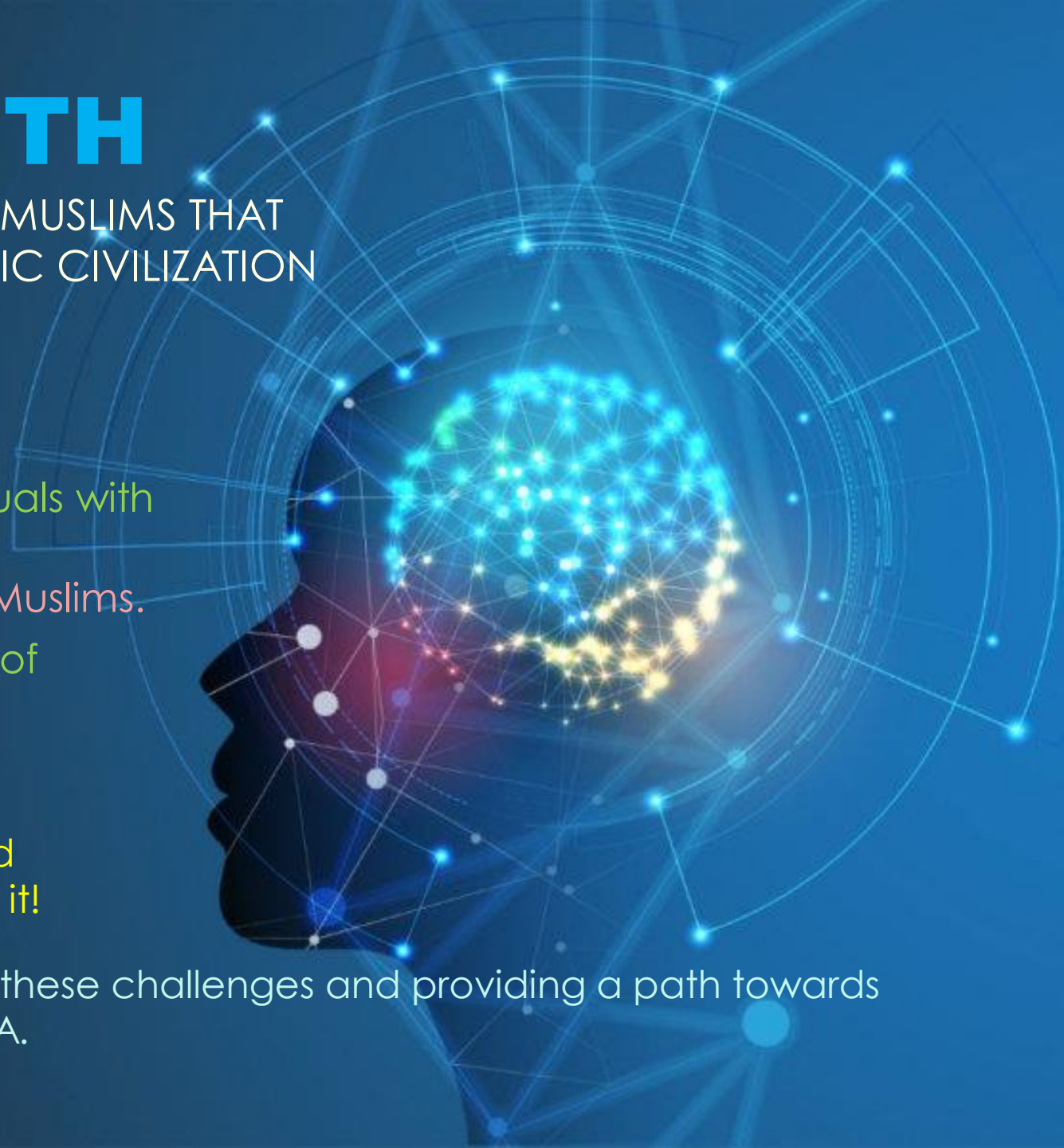
Common Struggles our youth face in the USA:

- ▶ Enormous peer pressure from non-Muslims.
- ▶ False notion that Islam is about performing rituals with little implication on one's career.
- ▶ Negative media coverage about Islam and Muslims.
- ▶ False notion that Muslims are behind in terms of civilization and world leadership.

→ This led to an Identity Crisis:

Many of our youth act as Muslims only in the masjid
and hide their Islamic identity somehow outside of it!

In this program, we work on providing solutions for these challenges and providing a path towards restoring the leadership of the Islamic civilization isA.



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**We need to create a
network to connect our
Muslim Youth all over the
world ... That should be
easy using today's
technology**

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**We need to provide
practical examples to
show how Islam can help
shape and impact their
future careers**

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**We need to reverse that
by creating positive
contents creating a LOT of
positive news about the
role model of Muslims in
the US society. We care a
LOT about our kids, we
just need to show it in an
organized way.**

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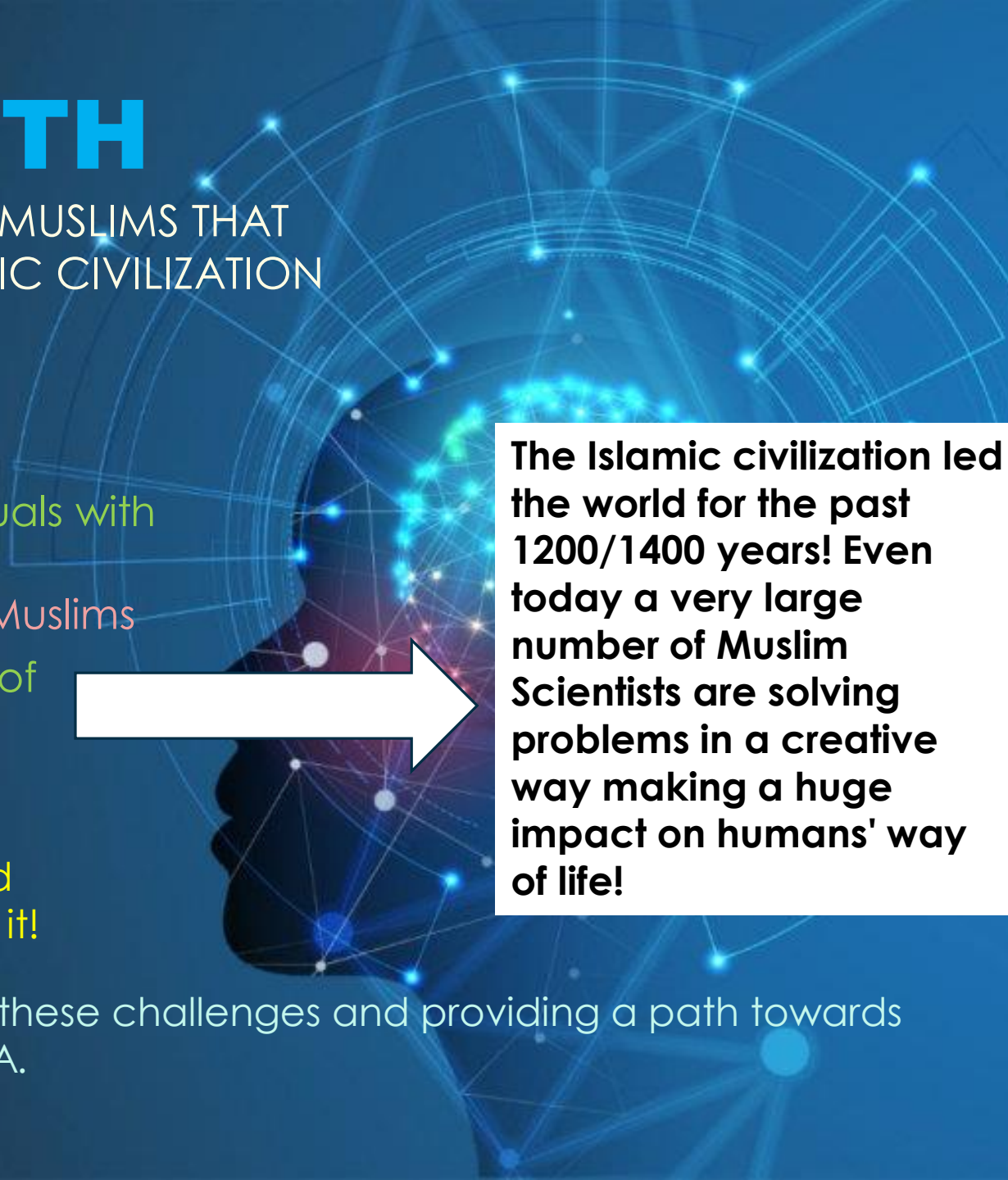
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**The Islamic civilization led
the world for the past
1200/1400 years! Even
today a very large
number of Muslim
Scientists are solving
problems in a creative
way making a huge
impact on humans' way
of life!**

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**A Muslim husband-and-wife team of researchers:
Ugur Sahin, 55, and Ozlem Tureci, 53
Saved the world from Corona Virus**

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Struggles to Strengths is A

- ▶ In order to solve all these problems and raise a capable generation of proud Muslims we need to **restore** the **universal role of the “Masjid”**
- ▶ Like the old days:
 - ▶ Our Muslim kids should find **answers** to the questions they have in the masjid.
 - ▶ They should learn how to **develop their careers** the Islamic way in the masjid.
 - ▶ They need to see the impact of the masjid on their **daily life**!



Educational circles in masajid used to provide a direct mentorship between the students and their teacher!

Registration is open until classes are full
Space is very limited, first come first serve

Tutorials for beginners



Tutorials for beginners



Our kids are smart and they deserve the best education possible

Do you want to put your kids on the path toward one of the highest paying jobs in the nation?

ICNM in collaboration with Salam Academy is happy to announce the launch of this 12 week program that will help achieving that goal isA ©

Week 1-4

- Opened to all ICNM kids age: 7-14
- Basics of programming using blocks
- Fees: \$10 / kid

Week 5-12

- Based on passing a test at the end of week 4
- Programming with Graphics and Games
- Fees: \$40 / kid

When: Every Saturday starting Jan 25th with two options 12:00 - 2:00 pm and 3:00 - 5:00 pm
Where: Salam Academy
Want to register your kids: fill a form or send an email to msebeida@gmail.com.
Questions? Please contact Br. Mohamed Ebeida or Sr. Asmaa Mohamed

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Words into Actions

Islamic Center of New Mexico (2012 – 2021)



I have been studying how to increase the impact of the masjid on our kids since 2012 in different capacities (Sunday School coordinator, director of youth, founder of multiple STEM programs, programming/coding instructor, etc.)

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IBN-SINA Mind Crafters School: A new program to teach the Muslim youth (age 8-12) the fundamentals of future technologies. The program will participate in the NM First Lego League (FLL) with a team of the top students.

Orientation: Friday 1/22/2016, after Isha (ICNM).

Admission Test: Saturday 1/30/2016, 4-6pm (Salam Academy).

2 days/week: Saturdays (Salam A) and Sundays (ICNM) starting 2/6/2016.

Session: 15 students * Free of charge * Full commitment required

To register, and for further info, contact: Mohamed Ebeida at msebeida@gmail.com



Islamic Center of New Mexico
1100 Yale Blvd SE, Albuquerque, NM 87106
SALAM Academy
8015 Mountain Road Place NE, Albuquerque, NM 87110



In 2016 we founded Ibn-Sina Mind-Crafters School at ICNM to
teach our Muslim kids the basics of robotics in the masjid!



For more info, or to volunteer, contact: Mohamed 530.746.1969 or Rashad 505.433.0034

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Quran ✕ Arabic ✕ Islamic Manners
Sunday School
قرآن كريم ✕ لغة عربية ✕ آداب إسلامية



Programming ✕ Robotics ✕ Graphics
IBN-SINA
MIND CRAFTERS SCHOOL

A New Collaborative Education Program at ICNM

Schedule: Sundays from 10:00 am to 2:00 pm (@ICNM)
Admission Test and Meet your Teacher Day: Sunday 08/07/2016
Start: Sunday 08/14/2016 **End:** Sunday 12/11/2016

Registration fees:

Early bird	\$60/student (by July 31, 2016),
Regular:	\$75/student (by Admission test day)
Late:	\$90/student (afterwards)

Age Group: 3+

To register, please contact the School Principal.
Sr. Wesam Radwan (505-515-7456)



Islamic Center of New Mexico
1100 Yale Blvd SE, Albuquerque, NM 87106



Hadith
قرآن كريم
Seerah
سيرة نبوية
Islamic History
تاريخ إسلامي
Arabic
لغة عربية
Coding
برمجة
أقل

We even added programming into the Sunday
School Curriculum

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Both Teams won top
awards in NM qualifiers
then NM Championship



In 2016, we formed two teams and participated in the
international competition of First Lego League (Age: 9 – 14)



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Islamic Center of New Mexico (2012 – 2021)



Ohafi



Mechanical Lead

Amr



Financial Lead

Hamza



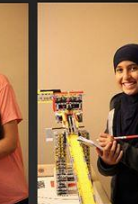
Programming Lead

Meera



Core Values Lead

Safa

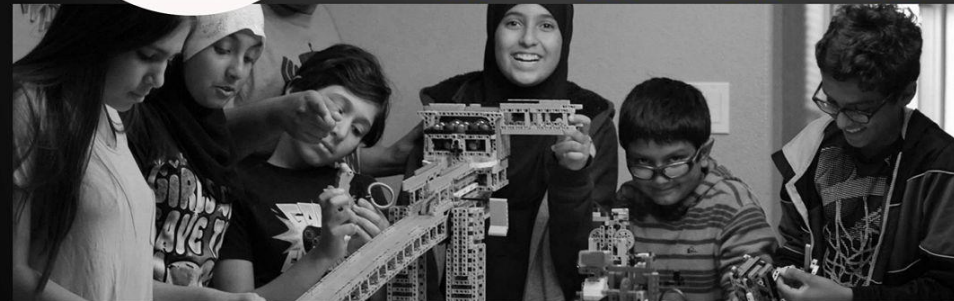


Robotics Lead

Rakin



Research Lead



SabreTooth Cyborgs is a team consisting of three sibling pairs, adding up to six people. This is the first year that our team has competed in **First Lego League**. We are very excited to be attending the **Mountain State Invitational**. We are a part of Ibn Sina MindCrafters' program.



Ibn Sina MindCrafters is a robotics program that has trained 12 students for **First Lego League** and split them into two teams of six. **Ibn Sina MindCrafters** is supported by one of the local mosques (ICNM) of Albuquerque, New Mexico.

Our Muslim teams got invited to an international competition organized by NASA and we won the core-value award



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Our great accomplishment was cheered by the press and NM politicians in Congress. Our kids got invited to present robotics workshops for gifted students in top public schools.

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In 2018, we decided to take it to the next level and formed
a First Tech Challenge (FTC) Team. Our team was able to win
5 awards in the first season!

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Islamic Center of New Mexico (2012 – 2021)



'Why I Bring My Kids to SIGGRAPH,' One Parent's Journey

by SIGGRAPH Conferences | posted in: Conferences, Education, Graphics, Interactive Techniques | 2



In 2019, Our team won the inspire award in the Sandia qualifiers and added 4 more trophies and competed in 3 States. We were featured in the SIGGRAPH (top conference in in computer graphics) blog.

FTC #14571

ZOOM MEETINGS IT IS!

WE WERE ABLE TO ORGANIZE AND HOST SEVERAL ZOOM MEETINGS WITH EACH OF THESE GROUPS, WHERE WE DESCRIBED OUR TEAM HISTORY, OUR CURRENT ROBOT, AND THE EFFORTS PUT INTO FRANCHISING OUR TEAM, ALONGSIDE LEARNED ABOUT THEIR GROUP AND SEE HOW WE CAN HELP THEM START THEIR OWN TEAM. THESE SESSIONS WERE ALL ABOUT FORMING A CONNECTION AND GETTING READY FOR MORE MEETINGS.



OUR TEAM BEGAN GETTING MULTIPLE MEETING REQUESTS FROM MUSLIM COMMUNITIES IN ALGERIA, EGYPT, TOKYO, AND MORE

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GOING LIVE WITH FACEBOOK INFLUENCERS!

AFTER POSTING ABOUT OUR TEAM AND BEING UPDATED ON THE MANY ZOOM CALLS WE WERE HOSTING FOR GROUPS ALL AROUND THE WORLD, RAMZY ABDELAZIZ AND THE EDUCATION CLINIC REQUESTED TO HOST A FACEBOOK LIVE WITH OUR TEAM. ECSTATIC, OUR TEAM QUICKLY ARRANGED A DATE AND CREATED FLYERS FOR DR. ABDELAZIZ'S TEAM TO COMMERCIALIZE. THE LIVE WAS VIEWED BY **20K PEOPLE**, AND WATCHED ACTIVELY BY PEOPLE FROM **21 DIFFERENT COUNTRIES!** THIS LED

TO THE CREATION OF THE MARVELS COMMUNITY FACEBOOK GROUP, OPEN FOR INQUIRIES ABOUT ROBOTICS GLOBALLY.

"THIS IS NO LONGER ONLY A ROBOTICS COMPETITION FOR OUR TEAM; IT BECAME A STEM AWARENESS MOVEMENT!"

COUNTRIES FROM WHICH THE LIVE EVENT WAS VIEWED:

- | | | |
|----------------|-----------|-----------|
| - EGYPT | - CANADA | - IRAQ |
| - MOROCCO | - ALGERIA | - INDIA |
| - PALESTINE | - LIBYA | - LIBERIA |
| - BANGLADESH | - JAPAN | - FRANCE |
| - SAUDI ARABIA | - U.A.E | - TURKEY |
| - MALAYSIA | - TUNISIA | - AUSTRIA |
| - AMERICA | - GERMANY | - FINLAND |



In 2020, We started a world-wide Stem awareness movement. Our team was able to win the Championship of NM regionals (included top teams from Mexico) and qualify to world Championship.




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Our Proposal: Form new Muslim Teams to participate in FIRST International Competitions

[PROGRAMS](#)[COMMUNITY](#)[WAYS TO HELP](#)[ABOUT](#)[DONATE](#)[FIND FIRST NEAR YOU](#)

A GLOBAL ROBOTICS COMMUNITY PREPARING YOUNG PEOPLE FOR THE FUTURE

Global Reach

Since 1989, *FIRST* programs have had a global reach with profound impacts on students of all ages around the world.



IN 2019...

- Over **575,000** students reached.
- Over **300,000** mentors, coaches, judges, and volunteers.
- Over **20 million** volunteer hours.
- **51,000** robots created.
- Over **80 million** dollars in scholarships available.


Benefits of *FIRST*

FIRST students are **three times** more likely to show an increase in STEM interest than comparison group students.

Positive impacts are evident for all *FIRST* students regardless of race, gender, income, or community type.

FIRST STUDENTS ARE SIGNIFICANTLY MORE LIKELY TO SHOW GAINS IN STEM OUTCOMES THAN COMPARISON STUDENTS

Interest	3.0x
Activity	2.6x
Career interest	2.5x
Knowledge	2.0x
Identity	1.9x



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**FIRST
LEGO
LEAGUE JR.**

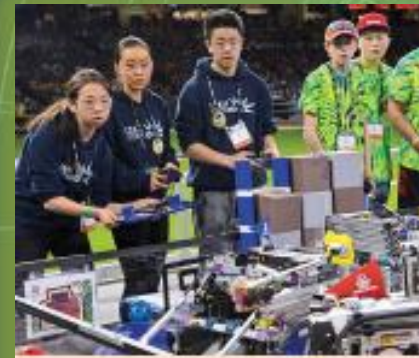
Ages 6-10 (Grades K-4)



**FIRST
LEGO
LEAGUE**

Ages 9-16* (Grades 4-8)

*Ages vary by country



**FIRST
TECH
CHALLENGE**

Ages 12-18 (Grades 7-12)



**FIRST
ROBOTICS
COMPETITION**

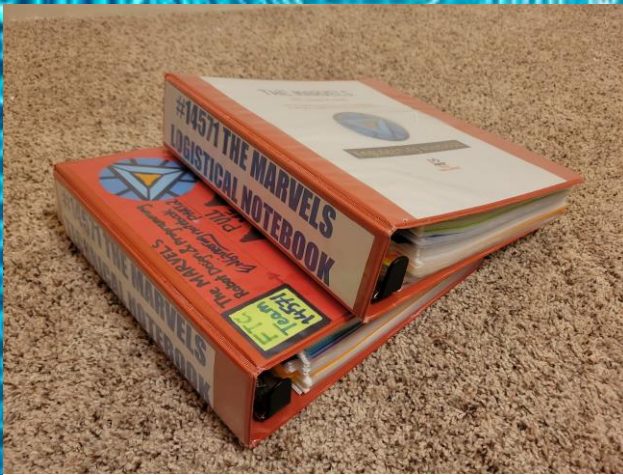
Ages 14-18 (Grades 9-12)

- ▶ We will seed our initiative with one team in the First Tech challenge competition.
- ▶ As we inspire and train more coaches to join, we will expand the program to all levels.
- ▶ I am expecting, in a few years, this program will be like a mini-university inside our masjid isA.

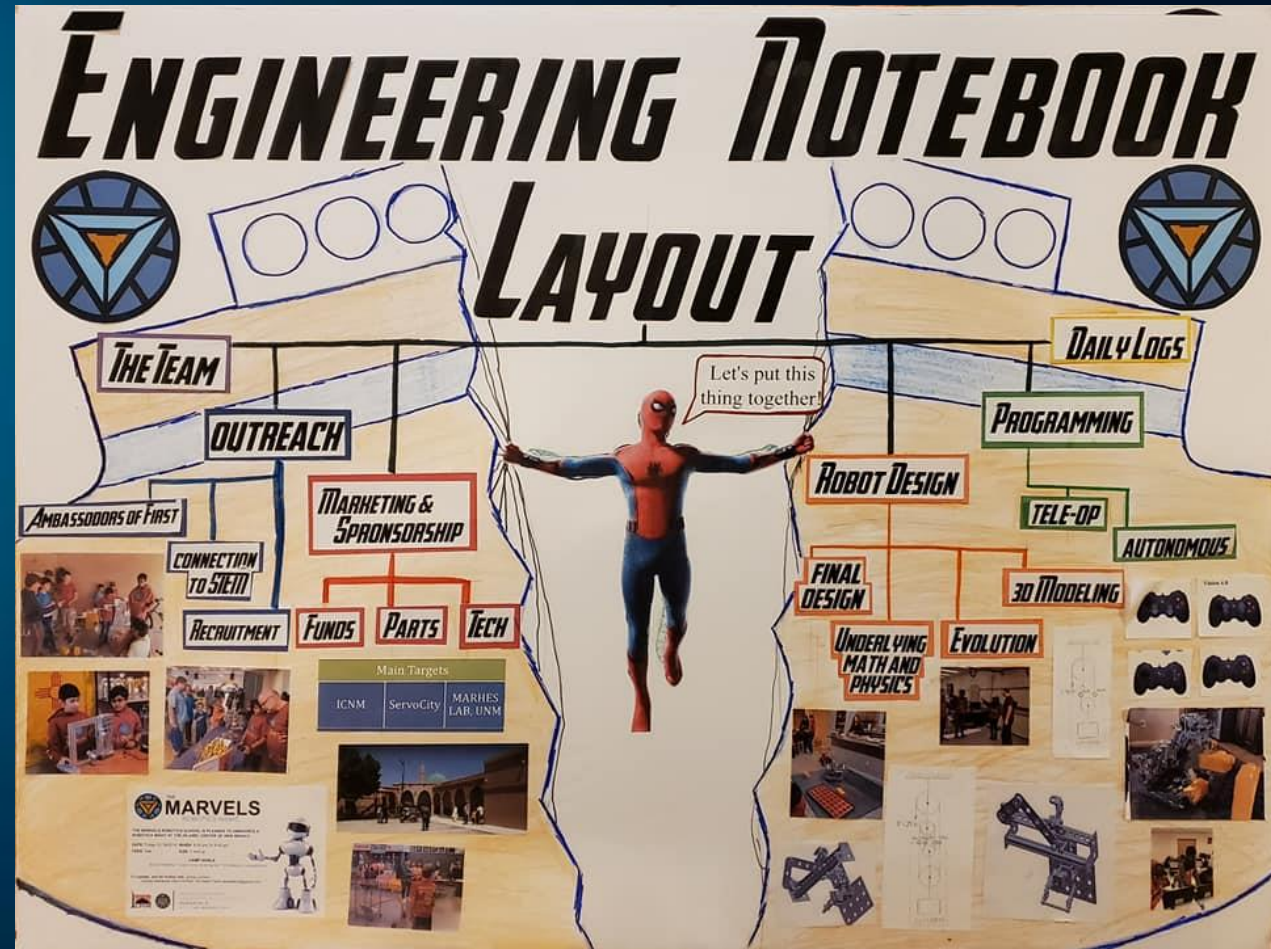
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FIRST Tech Challenge Skills



Engineering Notebook



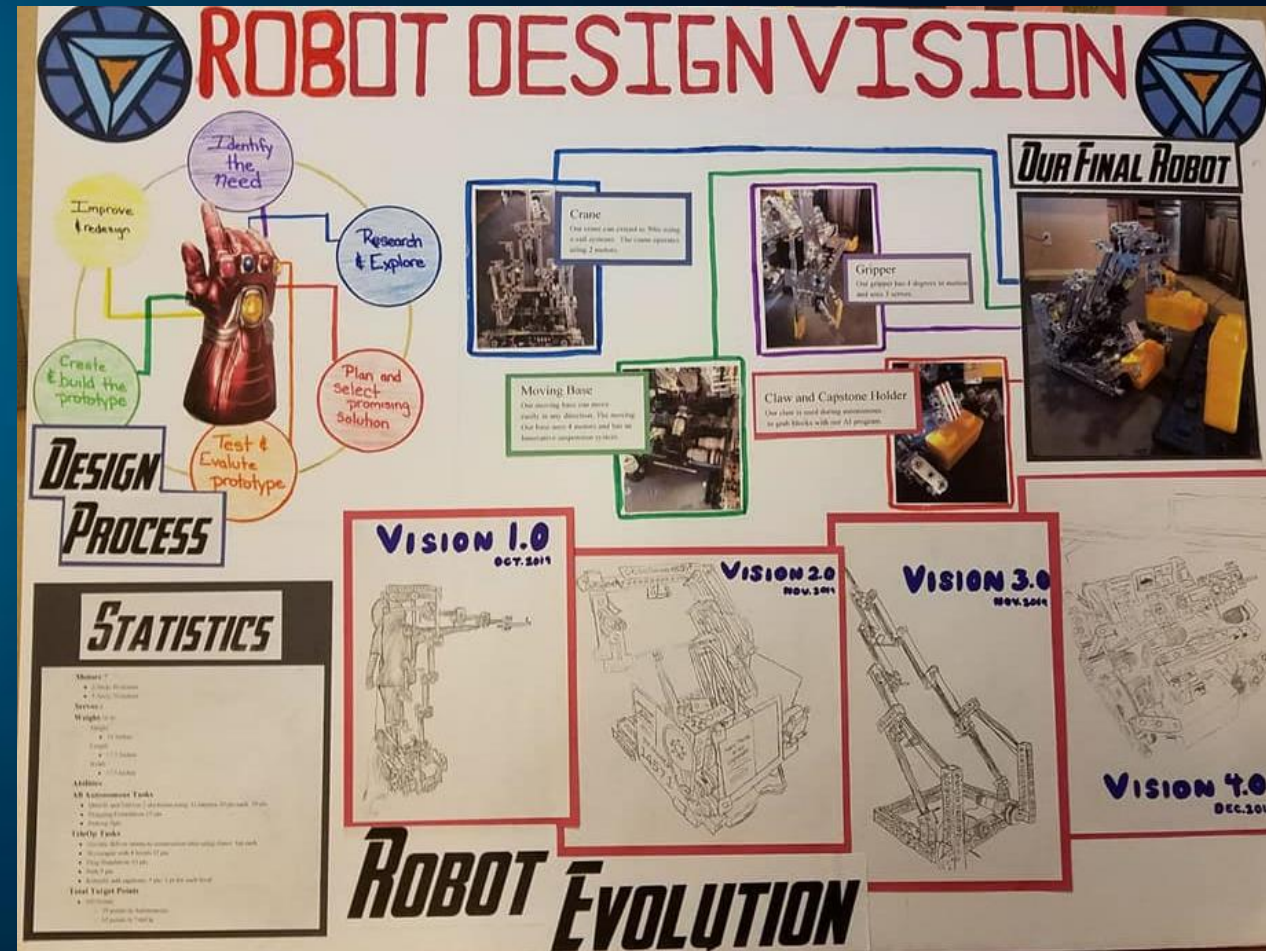
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FIRST Tech Challenge Skills



Robot Design



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FIRST Tech Challenge Skills



- THIS YEAR, WE USED ANDROID STUDIO TO PROGRAM BOTH THE AUTONOMOUS AND THE TELE-OP.
- WE SWITCHED FROM BLOCKS TO JAVA BECAUSE ITS MORE APPLICABLE IN THE REAL WORLD; IT IS USED MORE IN THE INDUSTRY SO IT IS MUCH MORE USEFUL TO LEARN.

OUR AUTONOMOUS
USED

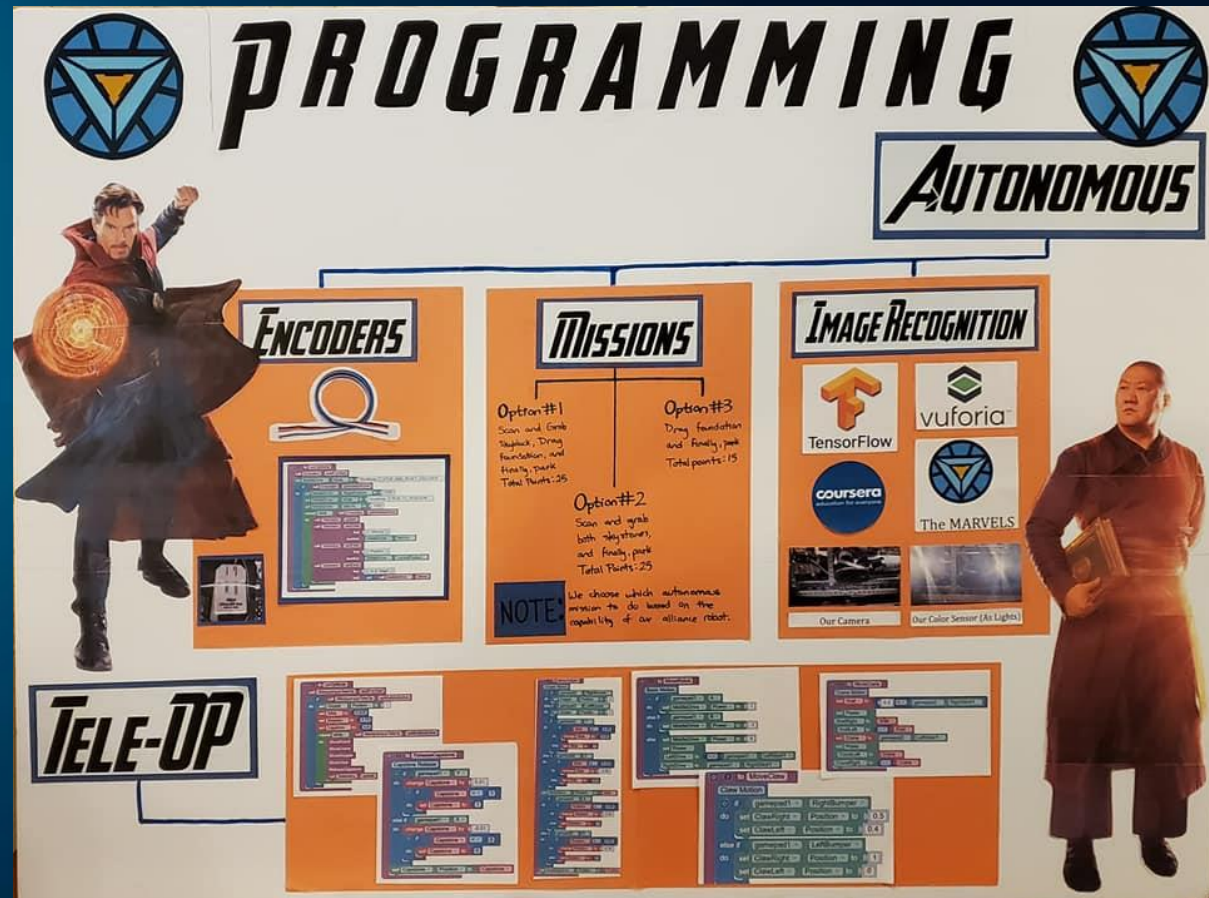


TO DETECT HOW MANY RINGS WERE IN THE STACK AT THE
BEGINNING OF THE GAME.

- WE ALSO USE THE GYROSCOPE BUILT INTO THE CONTROL HUB IN ORDER TO KEEP OUR TURNING PRECISE DURING THE AUTONOMOUS.

WE ARE ABLE TO
CONSISTENTLY DELIVER BOTH
WOBBLE GOALS, SHOOT 2-3
RINGS INTO THE TARGET, AND
PARK OVER THE LINE IN
AUTONOMOUS!!

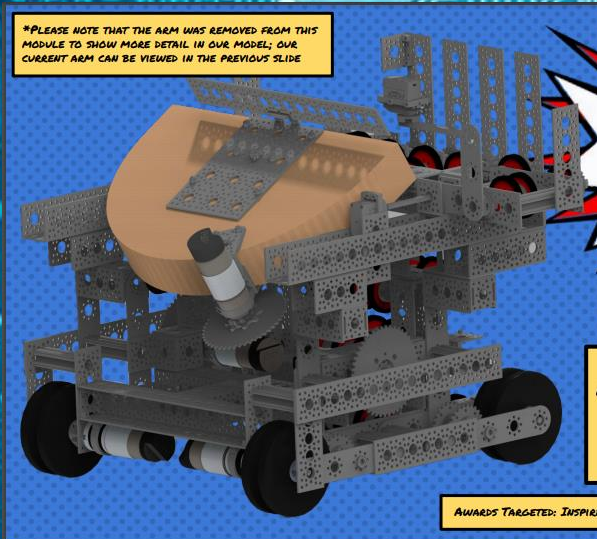
Programming and AI



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FIRST Tech Challenge Skills



3D Modeling



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FIRST Tech Challenge Skills



Marketing



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FIRST Tech Challenge Skills

OUR MEDIA PRODUCTION EFFORTS

FTC #14571

IN ORDER TO RESPOND TO THE MANY QUESTIONS WE RECEIVED ABOUT THE TOOLS NECESSARY TO ESTABLISH A ROBOTICS TEAM, WE DECIDED TO START PRODUCING AN EDUCATIONAL SERIES ON YOUTUBE, TOUCHING ON PROGRAMMING, BUILDING, AND MORE.

AFTER ANNOUNCING THIS EFFORT, WE WERE REACHED OUT TO BY A MEDIA PRODUCTION PROFESSIONAL LOCATED IN EGYPT.



AN EXAMPLE OF OUR RECENT WORK INCLUDES ANIMATING OUR HAND-DRAWN AVATARS!

FTC #14571



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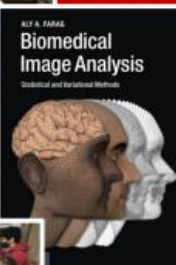
EGYPT	CANADA	IRAQ
MOROCCO	ALGERIA	INDIA
PALESTINE	LIBYA	LIBERIA
BAHRAIN	JAPAN	FRANCE
SAUDI ARABIA	U.A.E.	TURKEY
MALAYSIA	TUNISIA	AUSTRIA
AMERICA	GERMANY	FINLAND

TO THE CREATION OF THE MARVELS COMMUNITY FACEBOOK GROUPS OPEN FOR INQUIRIES ABOUT ROBOTICS GLOBALLY.

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Outreach Activities

CONNECTING TO STEM PROFESSIONALS



- Abdelrahman Zkria (Professor at Kyushu University, Japan)
- Hatem Saad (Doctor of physics and researcher at UNSW Canberra, Australia)
- Yasser Hassan (Professor of Oxford University, England)
- Ali Abdou (Technical advisor at Halliburton Company, Texas)
- Khalid Elgazzar (IoT Research Chair, Canada)



- Sameh Sorour (Professor at Uni of Toronto, Canada)
- Mohamed Hassan (Head of Fanos Research Lab, Canada)
- Omar Gamel (Machine Learning at Google, Canada)
- Albaraa Hassan (Senior Optimization Engineer at Nokia, Canada)
- Amro Ibrahim (EE Professor at Durham College, Canada)



RAFAEL FIERRO

ECE Professor
Ph.D. in Electrical Engineering
Head of UNM MARHES Lab

Met with us for an hour and brought along 5 of his students/assistants



ALY FARAG

ECE Professor
Ph.D. in Electrical Engineering
Top Scientist of Computer Vision Worldwide

Met with us for 2 hours and brought along 2 of his lab staff members



NATIONAL GUARD VISIT

A National guard unit visited our team with their robot; both of our teams then exchanged technical presentations about our robots.





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FIRST Tech Challenge Skills



Public Speaking

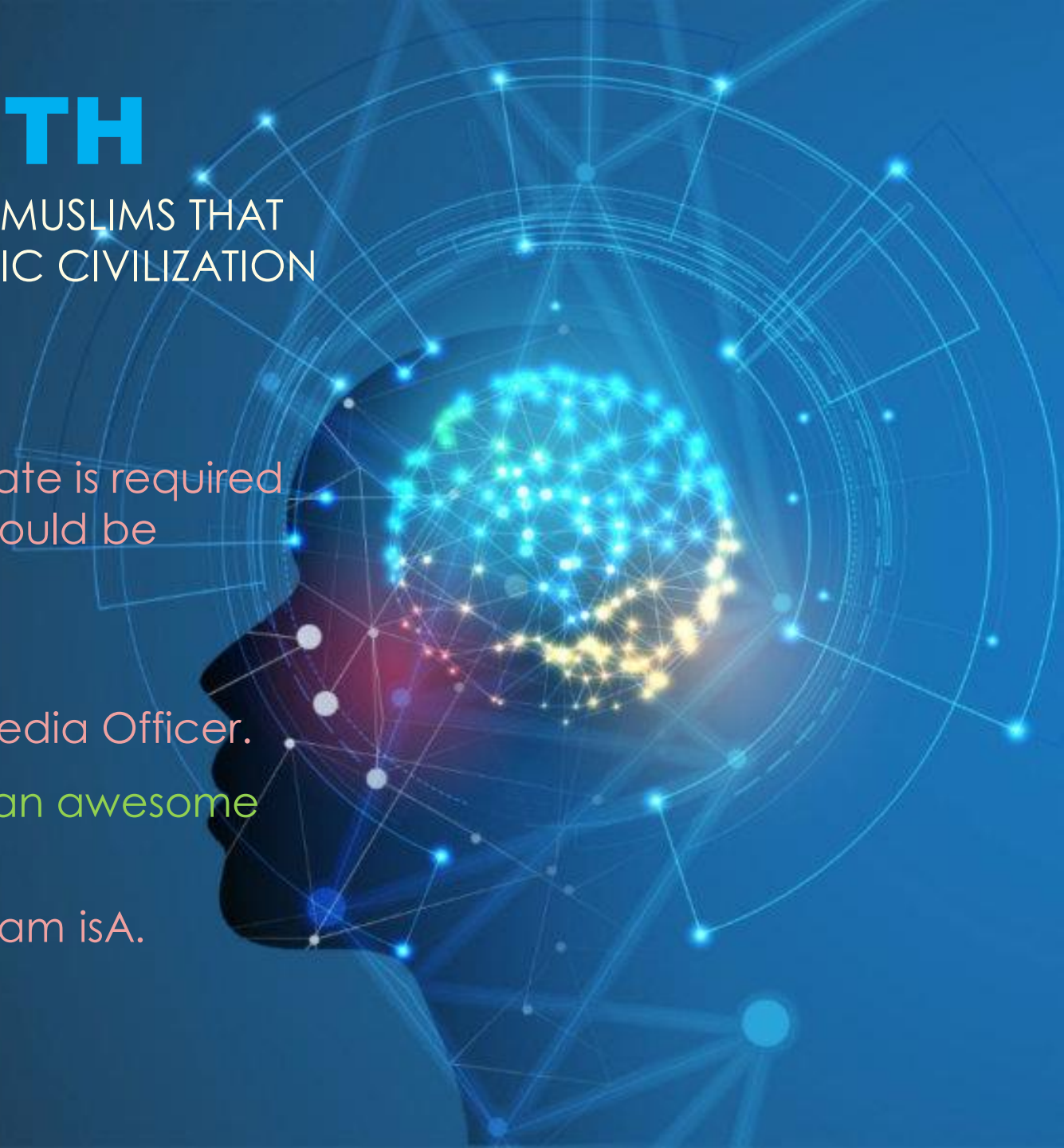


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Next Steps

- ▶ Interview interested students. Each candidate is required to provide a paragraph about why they should be selected as a MARVELS team member.
- ▶ Select team members.
- ▶ Pick a Team Captain, a Treasurer, and a Media Officer.
- ▶ Choose sub-teams and start preparing for an awesome season.
- ▶ Train more coaches and expand the program isA.



THANK YOU FOR YOUR TIME!



Questions?

