

# A NTENEH ENGINEERING

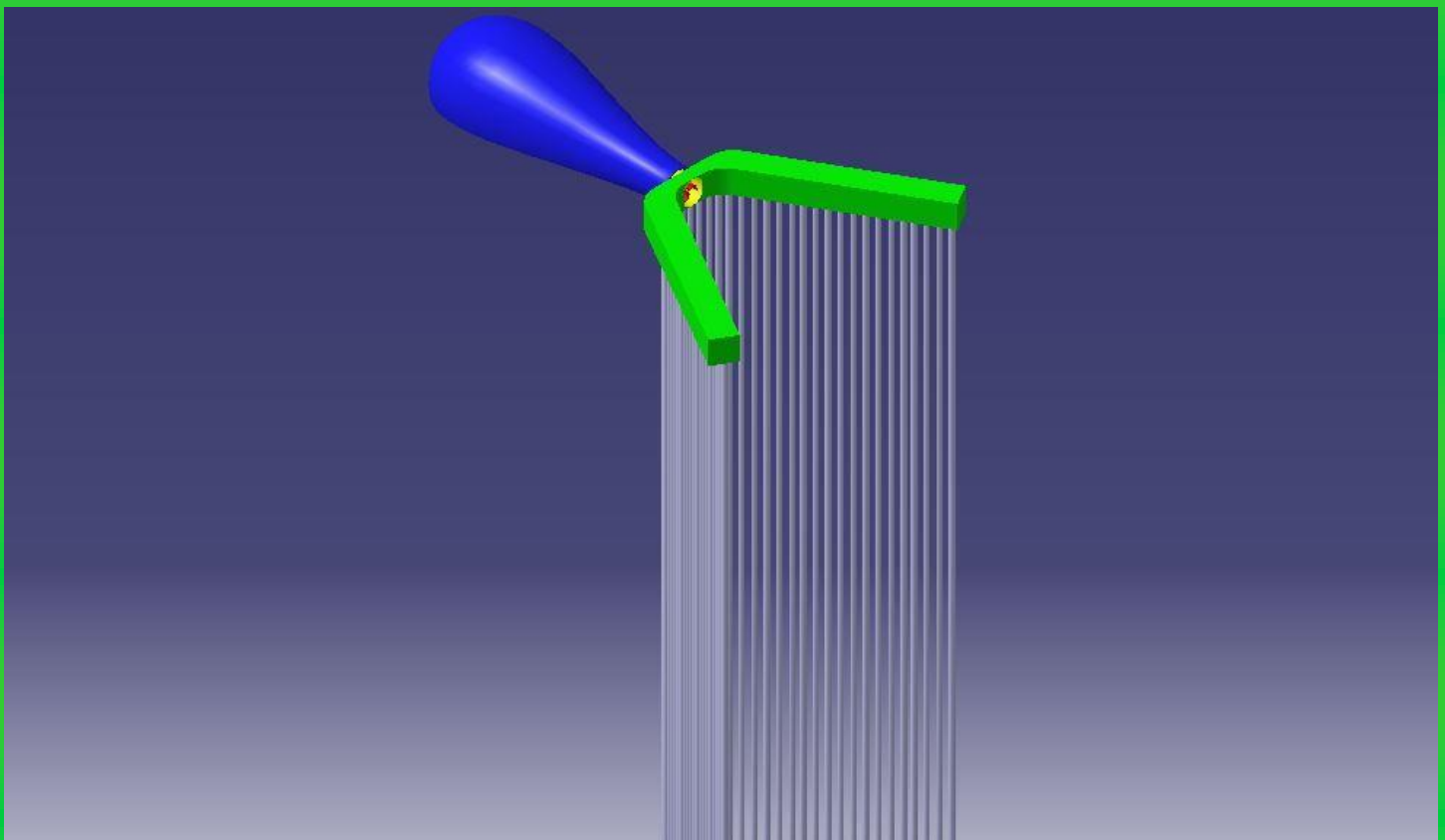
## CARIBBEANS SARGASSUM PROBLEM

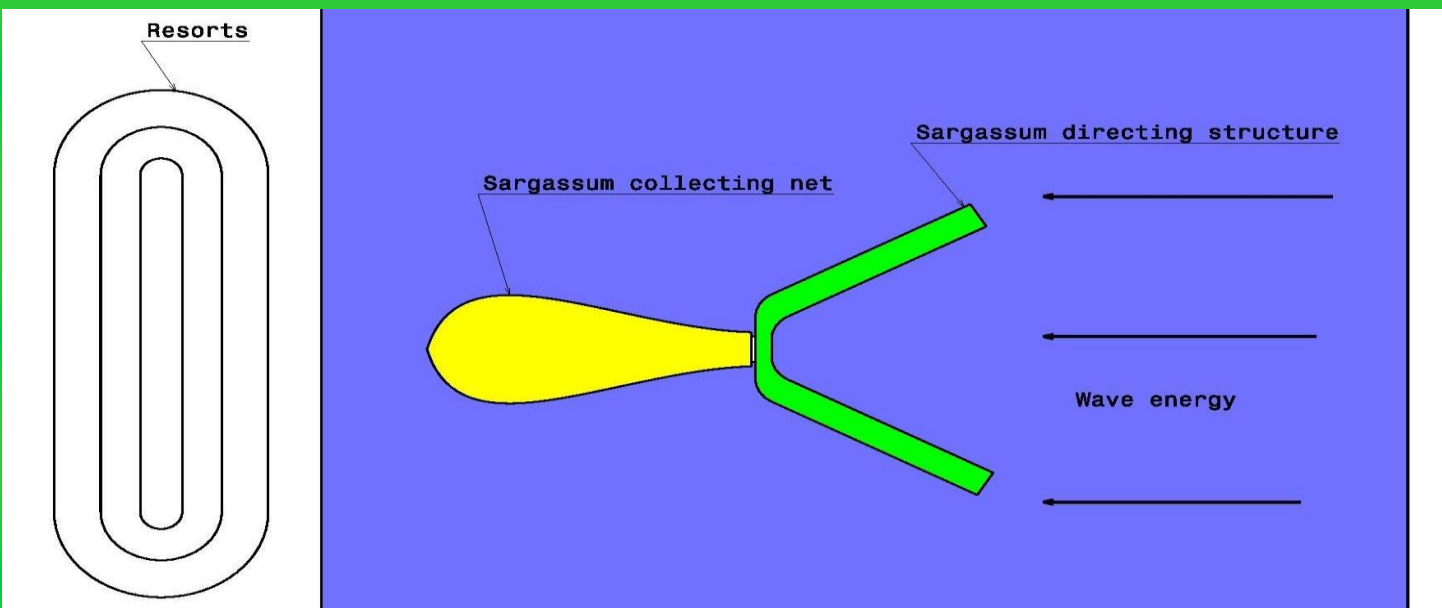
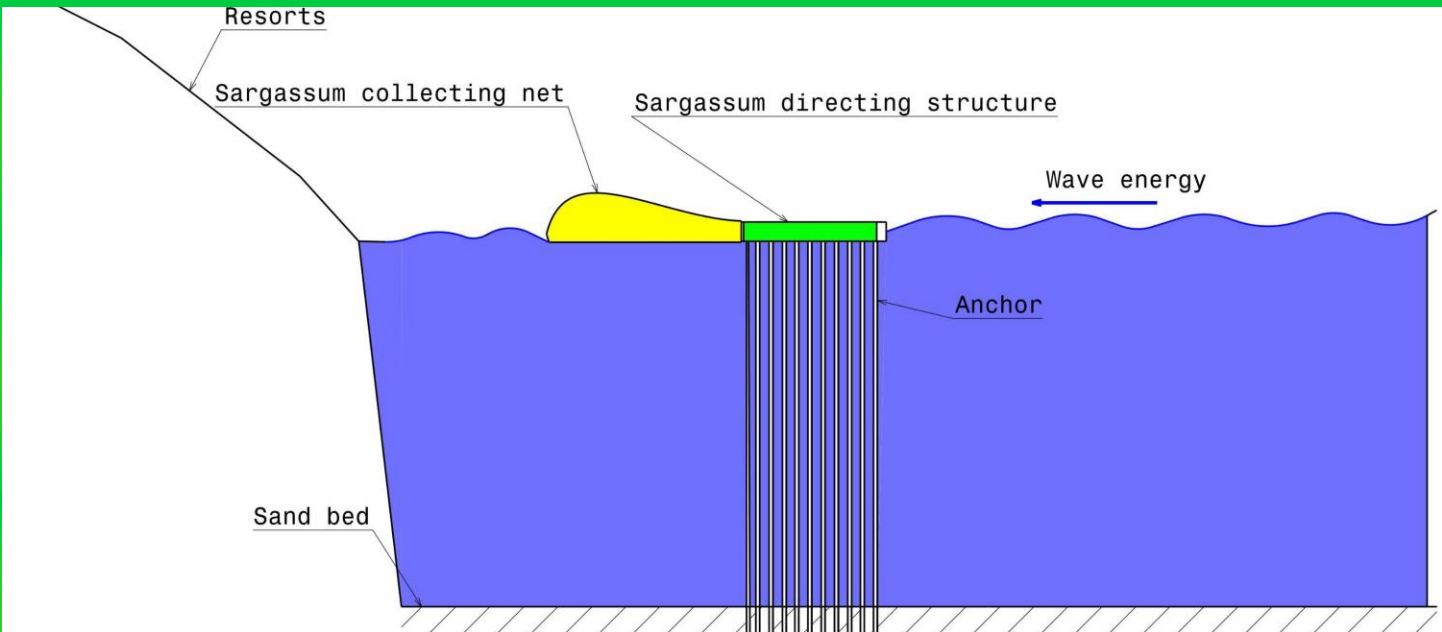
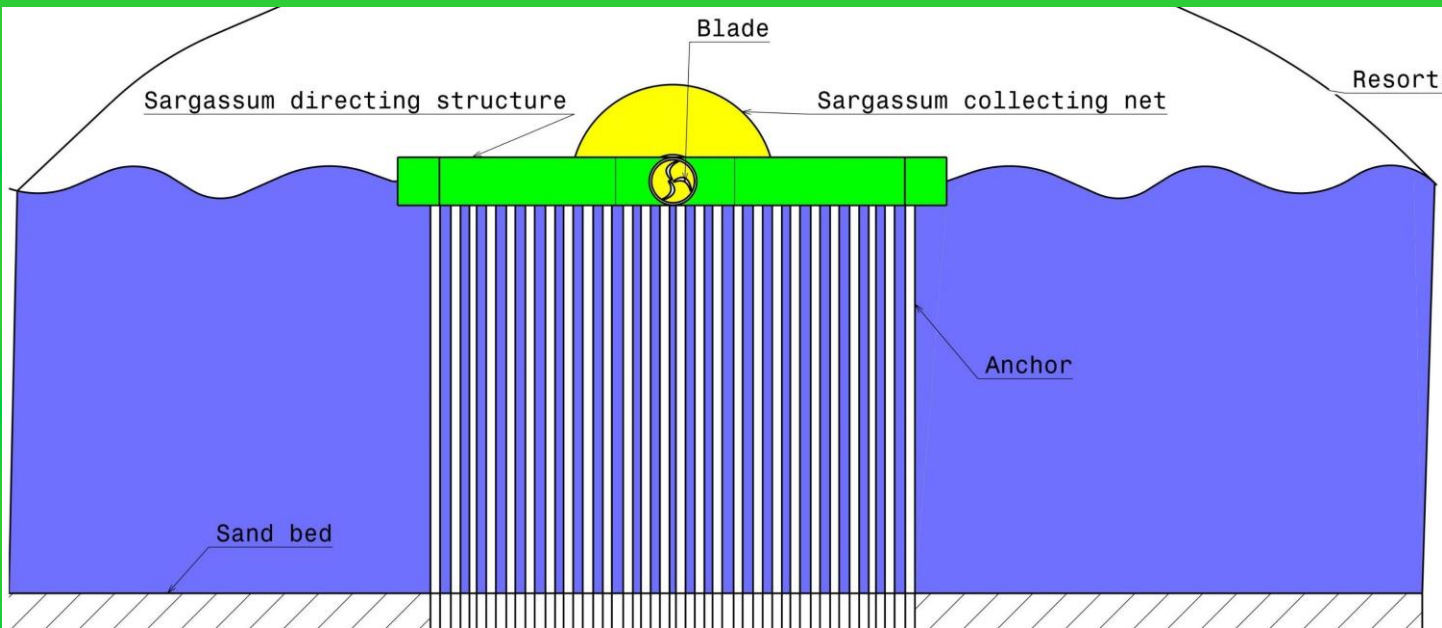


Record-breaking amount of Sargassum is in the Caribbean resulting in the highest problem ever gotten. The major problems it has brought are it piles up on beaches, sometimes many feet thick and begins to decay. The hydrogen sulphide that gets released smells like rotting eggs and many resorts had to close their doors. Since the species are Sargassum natans and Sargassum fluitans float they block sunlight creating dead zone beneath them because plants under need sunlight to survive and the cleanup and removal of Sargassum is an expensive and tedious task.

This project involves solving the Caribbean Sargassum problem by preventing the Sargassum from piling up and decaying since that is the main problem. The algae have considerable volume but we have the advantage of the current which we will use the green structure to direct the Sargassum into the red blade. The green structure is stationary fixed on the shore, and then the red blade will force the Sargassum to be collected in the blue holding net that allows water to pass but not the algae.

The project design also have an implementation mechanism that considers the new reality of Coronavirus (COVID-19) because while solving this problem is very critical for the **economy of Caribbean** and **fighting climate change** for the world, peoples should not have to risk their health while implementing the project. This is done by allocating local engineers in different locations, provide product specifications based on site conditions and make the installation without personals moving from one site to another.





## Inventor profile

I have dedicated my life for invention and research because not only I have big dreams but also it is my only way out of poverty. We all have a talent we know or did not find out yet. Mine happens to be inventing. I discovered this talent of mine when I was in second year student during my university life. Starting from that point everything seemed not important except creating new ideas. So, until now I have invented more than 70 inventions.

You can find some of my inventions via <https://contest.techbriefs.com/profile?user=89682>  
<https://www.herox.com/crowdsourcing-community/antenehgashaw-123126>  
<https://desall.com/User/AntenehGashaw/Portfolio>  
<https://challenges.openideo.com/profiles/antenh.g/contributions#recent-contributions>

My latest big international honors are

- Winner of Mechanical maker challenge by NASA/ JPL- 2019 with my design invention “Mechanical eye”
- Finalist in TKF plastic innovation challenge 2019 with my invention “Smart green washer”
- Top 100 inventions of 2019 by create the future contest by tech briefs with my project “Cone solar panel”
- Top 10 winner of TIA challenge 2019 with my multiple unique solutions and invention
- Finalist in Enel challenge on MV & LV distribution challenge 2019 with my invention “Turbine for avoiding birds in MV & LV distribution lines”

I believe that I have made many contributions to science so far and just to mention some,

- In the recent Hawaii natural problem challenge which is the saving the Ohi’a challenge (<https://conservationx.com/challenge/invasives/ohia>), I submitted more than 30 possible solution which you can see via <https://conservationx.com/challenge/invasives/ohia/projects>
- I have developed more that 20 inventions for solution, management and prevention of the Coronavirus (COVID-19) which you can see via <https://solve.mit.edu/challenges/health-security-pandemics/solutions/22229> or <https://contest.techbriefs.com/profile?user=89682>
- I have designed a Green- technology that will solve the micro fiber problem in the oceans which you can see via <https://2019.spaceappschallenge.org/challenges/earths-oceans/trash-cleanup/teams/the-saviors/project>
- I have designed a Green- technology that will solve the micro Plastic problem in the oceans which you can see via <https://contest.techbriefs.com/2019/entries/medical/9465>
- I have many contribution for agriculture industry with my multiple project like <https://challenges.openideo.com/challenge/food-system-vision-prize/open-submission/isolation-farming>
- I have contributed to Teraforming Mars with my project Melting mars polar ice cap <https://www.globalinnovationexchange.org/innovation/melting-mars-polar-ice-cap>
- I have contributed on reduction of plastics in packaging in beverage industries with my project bottle belt <https://contest.techbriefs.com/2019/entries/sustainable-technologies/9466> and few of my honorary certificates are shown below.

# MECHANICAL MAKER CHALLENGE WINNER

THIS CERTIFICATE ACKNOWLEDGES THAT

Anteneh  
Gashaw

PLACED THIRD IN THE

Mechanical Eye Challenge

2019

SIGNED, *Jonathan Sauder*, Challenge Coordinator



# Certificate of Achievement

*This Certificate of Achievement Presented to*

**Anteneh Gashaw**

*Recognizing your submission as a Top 100 Entry in the  
Create the Future 2019 Design Contest*

**Cone Solar Panel**

Presented  
November 2019

  
Joseph T. Pramberger  
President, Tech Briefs Media Group