## IEADERS FOR THE ENGINEERS FOR THE

How to encourage youth in the space sector







## MISSION SPACEWALKER

Mission SpaceWalker is an undergraduate student group at the University of Alberta primarily targeted at women & gender minorities that began in response to the Canadian Reduced Gravity Experiment (CAN-RGX) 5 Challenge.

Now, we are developing the first citizen research platform with Rockaboo Mountain Adventures and Parks Canada!



## STATISTICS

AT OUR UNIVERSITY

2 of 60 Women in mechanical engineering at my university.



- More than 20% of engineering school graduates are women
- Only 11% are practicing engineers

## THIS IS CHANGE

#### "THIS CLUB GIVES OUR MEMBERS A VOICE"

-Jana, MSW Co-President

## "I DIDN'T THINK I COULD DO THIS WITHOUT BEING AN ENGINEER"

-Pram, MSW Science Member

#### "IWANT TO BE AN ASTRONAUT TOO"

- -Alyson, MSW Engineering Lead
- -Emma, MSW Science Lead

## MSW is focused on training leaders

Leaders
inspired by
Leaders

What kind of impact can one person have?



## MEET JANA: COMMUNITY BUILDER





Had to homeschool



Where was the community?



## **BUILDING A HOME**

Mentee



Mentor

Dreamer



Creater

Member

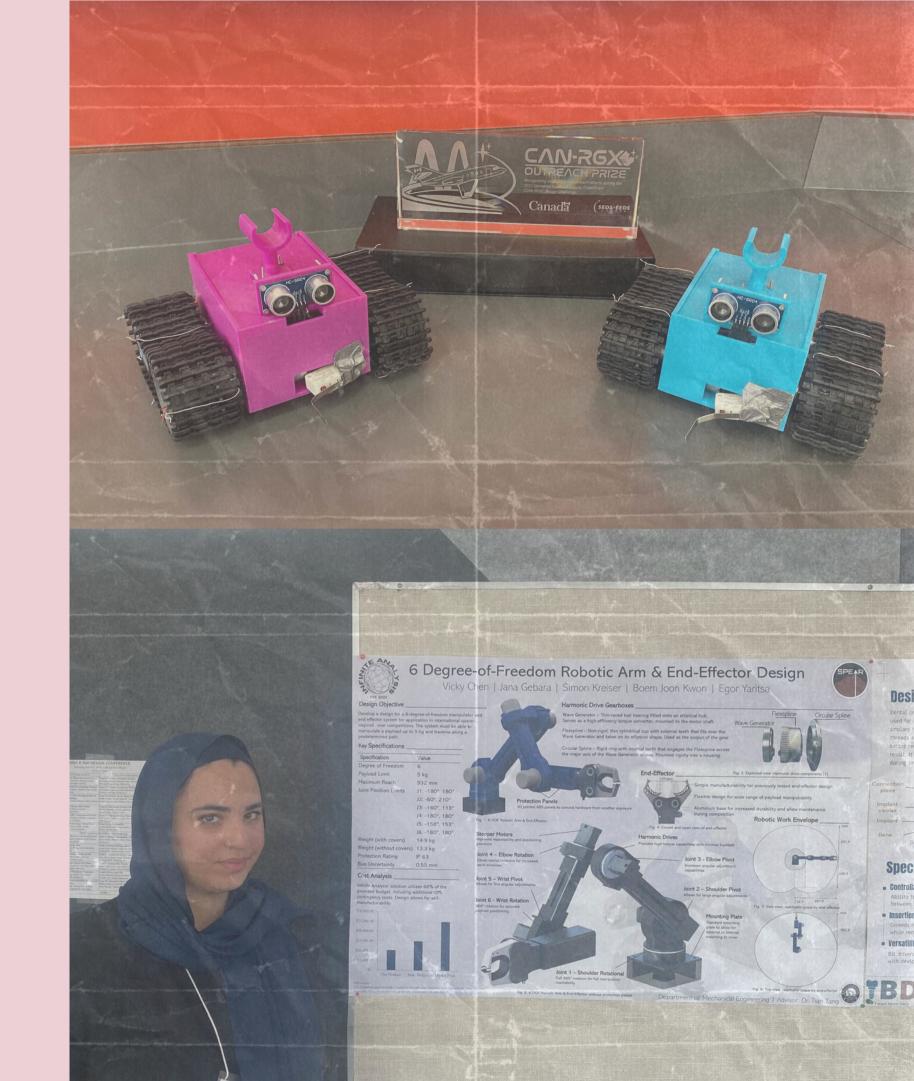


Leader

Club



Community





### **KEY TAKEAWAY**

## Make it a mission

Be proud of your values, and make equity, diversity, and inclusivity a mission that is known through the culture of the company!

## BIGGER THAN INSV

#### MSW ISNT THE ONLY SUCCESS STORY

Investing in training leaders has a butterfly effect.

Meet...

## MEET VANESSA: RURAL ROLE MODEL



Grew up in a town of 200



Lyme Disease



Had to drop HS from sickness



### SHARPENING THE TOOLKIT

Sick



Student

Dreamer



**Builder** 

Participater \_\_\_\_



**President** 

Mentee



Mentor





# KEYTAKEAWAY Make education accessible

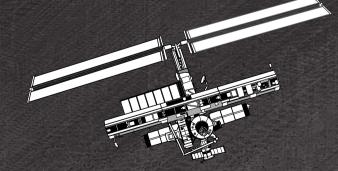
Opportunities for those who need extra time: sickness, unplanned pregnancies, immigration. And teach them how to use tools to build a better future!

## MEET HIRA: DIVERSIFYING SPACE

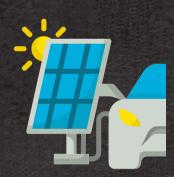
Immigrant parents, grew up living a modest life



Inspired by space figures, but all men



Science Fair with a teachers help



High school Struggles





### SPACE SKILLS ARE UNIQUE

Struggling |



**Self Care** 

**Artistic** 



**Poetry** 

**Events** 



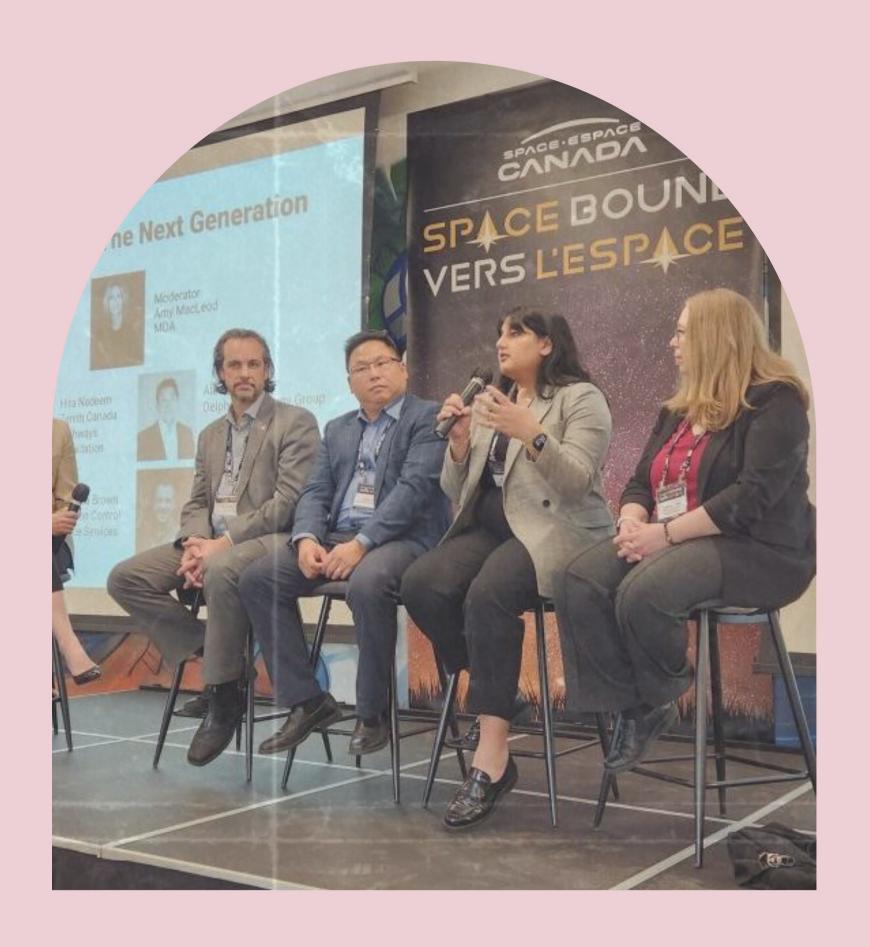
Inclusion

Mentee



Mentor





### **KEY TAKEAWAY**

## Inspire Interdisjolinary Interest

Space is unique and vast, and so are the skillsets we need. Look for ways to make opportunities for a diverse group. Why focus on leaders?

Leaders
inspire
Leaders

It only takes one person to inspire many!



# THANK YOUVERY MUCH!





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