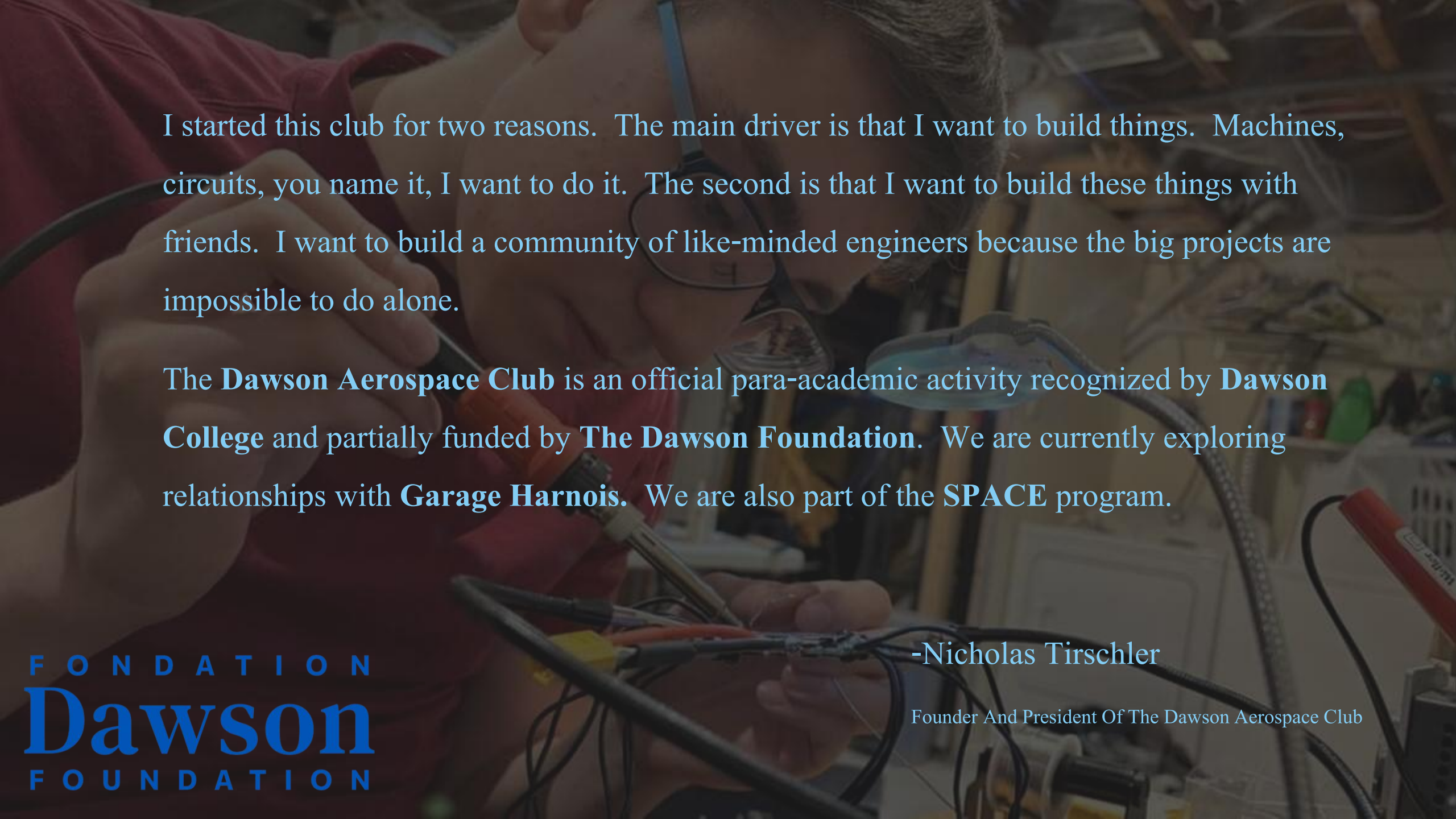


# Dawson Aerospace Club (DAC)

Sponsorship Package





I started this club for two reasons. The main driver is that I want to build things. Machines, circuits, you name it, I want to do it. The second is that I want to build these things with friends. I want to build a community of like-minded engineers because the big projects are impossible to do alone.

The **Dawson Aerospace Club** is an official para-academic activity recognized by **Dawson College** and partially funded by **The Dawson Foundation**. We are currently exploring relationships with **Garage Harnois**. We are also part of the **SPACE** program.

-Nicholas Tirschler

Founder And President Of The Dawson Aerospace Club

# SPONSORSHIP OPPORTUNITIES

| <div><div></div><div></div><div></div><div></div></div> <div></div> |  | ORBIT       | APOGEE      | ZENITH      | APEX        |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|-------------|-------------|-------------|
| LOGO PLACEMENT                                                                                                                                       |  | \$1,000     | \$3,000     | \$5,000     | \$10,000    |
| Logo on website, rocket, RC-plane                                                                                                                    |  | <div></div> | <div></div> | <div></div> | <div></div> |
| Small logo on shirt, rocket, race car, RC-plane, FRC bot                                                                                             |  | <div></div> | <div></div> | <div></div> | <div></div> |
| Large logo on shirt, rocket, race car, RC-plane, FRC bot                                                                                             |  | <div></div> | <div></div> | <div></div> | <div></div> |
| MEDIA & OUTREACH                                                                                                                                     |  |             |             |             |             |
| Named in social media posts                                                                                                                          |  | <div></div> | <div></div> | <div></div> | <div></div> |
| Custom social media campaign                                                                                                                         |  | <div></div> | <div></div> | <div></div> | <div></div> |
| Official sponsor title                                                                                                                               |  | <div></div> | <div></div> | <div></div> | <div></div> |
| BRAND VISIBILITY                                                                                                                                     |  |             |             |             |             |
| Brand visibility                                                                                                                                     |  | <div></div> | <div></div> | <div></div> | <div></div> |
| Name on the Team (Dawson – Sponsor’s name Aerospace Club)                                                                                            |  | <div></div> | <div></div> | <div></div> | <div></div> |
| Named launch pad sponsor                                                                                                                             |  | <div></div> | <div></div> | <div></div> | <div></div> |

# What we have done



## Rocketry At Dawson

The club also serves as a hub for amateur rocketry among students. Two members are currently pursuing their L1 rocketry certification with many more interested in the field.

## Airplane Restoration

We applied and received a 700\$ grant from The Dawson Foundation to restore an old RC airplane. The plane was originally gas-powered, and we decided to electrify it. We also decided to build and install an on-board flight computer, which uses a gyroscope-accelerometer to auto-balance.

# Future Projects



| Project:            | Launch Canada Junior | Formula SAE        | First Robotics Competition (FRC) |
|---------------------|----------------------|--------------------|----------------------------------|
| Upfront Cost        | 3850\$               | 24,600\$           | 16,725\$                         |
| Yearly Upkeep*      | 950\$                | 5000\$             | 8,700\$                          |
| Deadline For Signup | Around October 24th  | Around October 9th | Around November 18th             |

\*yearly cost for maintaining the program after initial lump-sum payment

# Space Club

Joel Trudeau

SPACE (Sciences Participating with Arts and Culture in Education) is Dawson College's long-standing para-academic initiative for interdisciplinary student learning, supporting exploration, discussion, making, mentorship and public sharing beyond the classroom and across the disciplines. For more than 15 years, SPACE has helped students connect scientific and technological questions with the arts, and social sciences, providing a framework in which curiosity can become student-led activity, project work and community contribution. Over the years, SPACE has supported hundreds of student projects, offering a practical structure for learning that begins in courses and disciplines but continues beyond them. SPACE is proud to support the Dawson Aerospace Club, whose talented student team brings exceptional initiative, technical skill and commitment to ambitious hands-on aerospace projects.



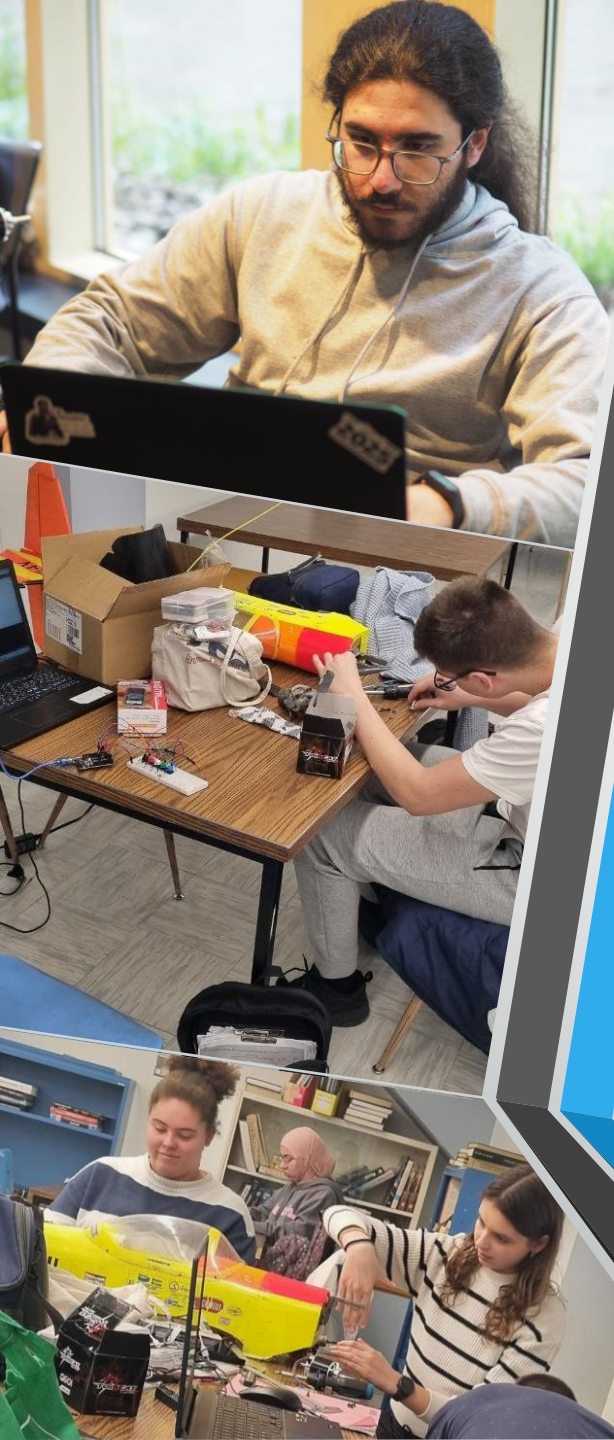
# Why choose the DAC?

- We provide you with direct exposure to CEGEP-level science and engineering students.
- Job market is saturated with engineers. However, not a lot have hands-on, practical skills that prove valuable in the real world and are essential for companies. DAC is a unique space that provides students with resources and opportunities such as CAD, circuit building, data analysis, physical simulations, and many more. Candidates with such skills will be much stronger for any company that is looking to hire.
- Ultimately, companies will be investing in a more capable, skilled pool of future candidates for themselves



# Our Intentions for our organization

- To help expose the idea of aerospace to more students.
- To inspire students to try aerospace related activities using these projects we are working on.
- Easy accessibility and opportunity for students who are interested in anything aerospace related.
- To help students work together and learn while contributing to projects held by the DAC.
- To help students find what they are and/or aren't interested in for future references.



# Our intentions for students

- Most students don't have hands-on experience, and most companies won't hire without prior experience.
- That is where the Dawson Aerospace Club comes in. Through various student led projects (RC-plane, Rocket, SAE Race Car, etc.), DAC provides students with many opportunities to gain valuable technical, hands-on experience in coding, CAD design, electronics, and structural design.
- Companies get experienced workers, and students gain skills that helps them navigate the job marker.

# Team Members

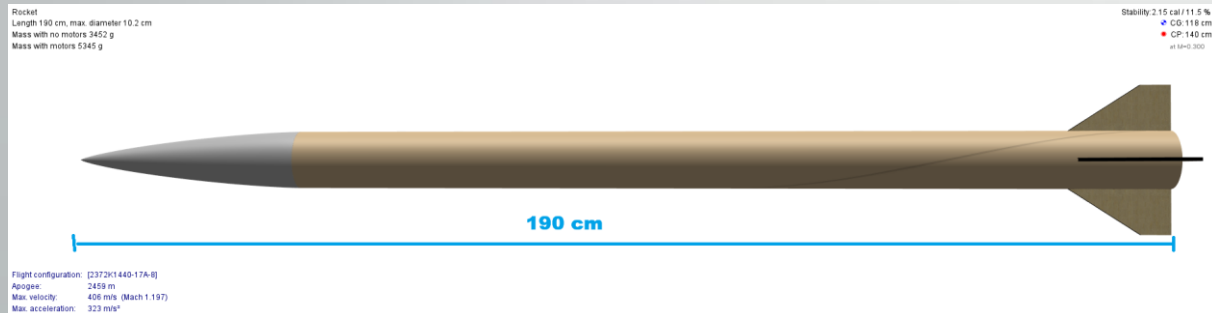


We have about **60 official members** across the school, with about 25 active members we are one of **the largest clubs at Dawson.**

# Launch Canada Junior

We want to be the first CEGEP to participate in the Launch Canada Junior launch competition in 2027.

This will provide our team with experience with various aerospace systems in addition to providing outreach opportunities to our members and the school.





# The Rocket Team:

- Faculty advisor: Jean-François Brière
- Project lead: Nicholas Tirschler
- Chief engineer: Kevin David
- Chief safety officer: Vera Wolfson
- Team mentor: William Dussault

# Goals

- Design, build and fly a rocket that respects the rules of the Launch Canada Junior Launch competition.
- Successful recovery
- Participate in the payload challenge
- Provide varied learning opportunities for our team members.
- Inspire students to pursue their dreams
- Have fun!

## Our Rocket

- Dual deployment recovery
- Standard rocketry materials
- No structural 3D printed components.
- Redundant recovery systems

# Rocketry Division Budget

|                                 |         |
|---------------------------------|---------|
| Motor Case                      | \$350   |
| Rocket Motor                    | \$450   |
| Electronics                     | \$1,000 |
| Registration                    | \$500   |
| Payload                         | \$500   |
| Airframe Material               | \$400   |
| Recovery System                 | \$300   |
| Misc. (Screws, 3D prints, etc). | \$350   |

The Motor Case, Electronics, Airframe, Recovery and Misc. are all reusable. We would like to participate in this competition every year so these parts would be very useful.

**Total: \$3850**

**Upkeep: \$950 yearly min.**

# Formula SAE

Formula SAE is an annual international racing and design competition that challenges students from universities across Canada and the United States to design and construct a fully operational open-wheel electric race car.

## Our Goals:

- Design, construct and deliver a car that can participate in Formula SAE in 2027.
- Participate in Formula SAE's dynamic and endurance competitions
- Establish a team that will be able to participate in future competitions.
- Learn the intricacies of car design, aerodynamics and motor racing.
- Enjoy the process and take full advantage of every learning opportunity!

# SAE Budget

| Element of Budget                   | Price (CAD) |
|-------------------------------------|-------------|
| Registration Fee                    | \$4,200     |
| Transportation Fees                 | \$1,500     |
| Accommodation Fees                  | \$1,800     |
| Batteries and motor                 | \$7,000     |
| Chassis                             | \$4,500     |
| Suspension                          | \$1,500     |
| Gearbox                             | \$600       |
| Electronics                         | \$1,500     |
| Miscellaneous (Screws, Livery, etc) | \$2,000     |
| Total:                              | \$24,600    |

# SAE Team

- Faculty Advisor: Jean-François Brière
- Co-Leader: Julian Ursino
- Co-Leader: Tyrone Benjamin
- Chief Safety Officer: Alexey Solovyev
- Head of engine development: Vera Wolfson
- Head of Chassis development: Anthony Murgante
- Treasurer: Sabrina Battah

# FRC Robotics Team

One of the problems we might run into in terms of longevity for the Aerospace Club is member skill level. Right now we have many highly skilled and motivated students, but this might not be true next year or the one after that. How do we provide a stream of technically and socially (team-wise) experienced members? Through a first-year-only engineering competition, of course. Currently, multiple members participated in FRC in high school. The president of the club was the captain of LATech 4955, the safety officer of our rocketry team won an FRC award and had the opportunity to go to Texas for the 2025 season.

# FRC Budget

| Item                            | Cost            |
|---------------------------------|-----------------|
| Kraken Motors (x8)              | 2544\$          |
| Power Distribution Hub          | 250\$           |
| Pneumatics Hub                  | 90\$            |
| Roborio                         | 485\$           |
| Radio                           | 185\$           |
| Entrance Fee                    | 8,700\$         |
| Drive Base (MK4c Swerve Module) | 1200\$          |
| Limelight                       | 263\$           |
| Clear Plastic Sheets            | 132\$           |
| Neos Vortex Motors (x8)         | 1740\$          |
| Gearbox for Neos                | 1056\$          |
| Compliant Wheels                | 80\$            |
|                                 |                 |
| <b>Total:</b>                   | <b>16,725\$</b> |

All of these parts are reusable so the only upkeep would be the entrance fee (8,700\$). It is also important to keep in mind that this number is basically the highest possible, as this list is basically a wish-list. The minimum cost for the whole team is closer to 13-14 thousand dollars.



**THANK YOU**