

# ÉCOLE SECONDAIRE CATHOLIQUE PÈRE-RENÉ-DE-GALINÉE



- École secondaire catholique Père-René-de-Galinée (PRDG) is a French Catholic school situated in South Western Ontario, Canada. Our school Board, Conseil scolaire catholique MonAvenir provides services to close to 17 000 students.
- As “Franco-Ontarians”, we pride ourselves for being a hub for the community.
- Our school is named after a religious geographer who came from France in 1669 to map out the Great Lakes in southern Ontario.
- In 1996, our school was built with only portables housing roughly 100 students with a teaching staff of 10. We have now grown to 600 students from grades 7 to 12 with 60 faculty members

# PRDG OFFERS A WIDE RANGE OF ACTIVITIES...



- We offer a wide ranged curriculum which includes the IB Program and theoretical and applied streams of study. Roughly, 90% of our graduates attend post-secondary institutions
- Along with academics we offer many clubs including: Technology, Robotics, and Humanitarian efforts and many sports teams such as hockey, soccer, basketball, volleyball, Xcountry, Track and Field, golf, softball and squash.



# THE BEGINNING...



- Our journey began in mid-October when Paul came in my classroom to see if I would be interested working with him on CERN's BL4S competition. After a few questions, I quickly realized his knowledge and passion for particle physics was very real.
- Little did I know how a simple « Yes » can change peoples lives.
- Paul then went on a mission to recruit team members and what a good job he did. He recruited a team of talented individuals (7 girls and 6 boys). Something that he is very proud of doing.
- On this team, we have future physicists, engineers, doctors, pharmacists, computer saavies and scientists.
- Passion, knowledge, determination and eagerness to learn characterizes this unique group of young individuals. Futur contributng leaders for the communities they wish to establish in.
- We began meeting every Thursday at lunchtime to discuss our project. Everytime the bell rang, there they were waiting for me to open the classroom door. After the 3rd time, this is when I realized that this project would be quite different.

# THE BIRTH OF OUR PROJECT...

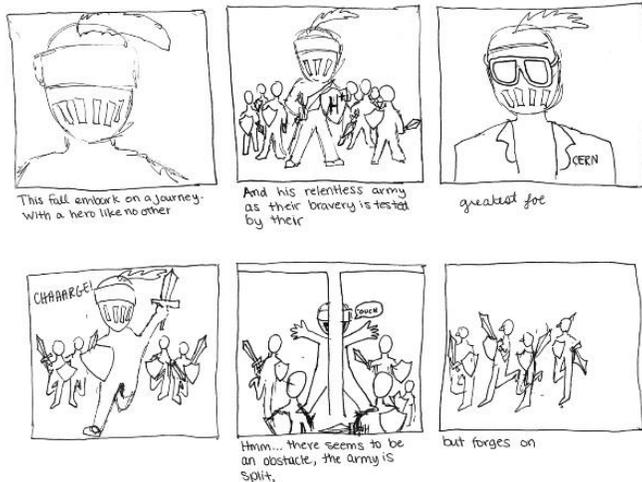


- When we first started, different ideas were brought forward.
- One of them gained a little bit of traction and it was : the effects of gravity on anti-matter.
- Seeing no real progress, Paul then found Dr. James Pinfeld, a professor at the University of Alberta, to help us move forward.
- Dr. Pinfeld introduced to us the concept of fractionnal charges. This is where our project began to come to life.
- With his guidance, patience and keen interest in helping our youths, we started moving forward as a team. Like a sailboat receivng its mid-morning wind.

# THE MARCH 31 ST DEADLINE...

- After numerous Skypes with Dr. Pinfeld, lunchtime meetings and a keen interest in learning, the proposal came to life.
- With great communication skills and great ideas from Dominique, Caitlyn, Denisa, Paul, Andrew, Mariam and the rest of the crew, the video soon followed.
- Caitlyn and the team used Story Board as a starting point.. All of this was done by the students alone. After classes, I came back from a school outing and there they were running around in the school halls with their swords and shields
- When they showed me their end product, I was very impress with their work. I showed it to my wife, my kids and almost to all my colleagues.

## Story board



## SCRIPT:

\*Camera is going down hallway  
**Narrator:** This fall, embark on a journey.  
**Narrator:** With a hero like no other  
\*Zoom on the charge on the suit of armor shield. Pans out to see a crowd dressed as knights\*  
**Narrator:** and his relentless army [the proton beam] as their bravery is tested by their greatest foe.  
\*flashes to the suit of armor dressed as a scientist\*  
**Army:** Charrrrrge!  
\*chevalier with his army (us) behind him running towards camera, camera moves backwards, suit of armor gets caught behind post in doorway \*  
**Narrator:** Hmm, there seems to be an obstacle, the army is split, but forges on.  
\*They run through the cafeteria and squeeze through doorway [collimator] into another hallway.\*  
**Narrator:** They are oblivious that they are being counted by the Cherenkovs, and now the Scint. twins.  
\*show the twins looking shady and clicking their tally counters.  
**Narrator:** Shall we see who will get through the next hurdle [absorber]  
\*the electrons suck at it and look tired\*  
**Halo counter:** \*wearing angel halo\* ha ha! look at these slowpoke electrons!  
\*giggling princesses [magnet] distract the muons and they divert into the gym\*  
**Narrator:** Uh oh, looks like the muons are getting a little distracted on the job.  
\*they go through doors marked muon filter, through the window in the door we see another scintillator counting them\*

# PAUL MCKARRIS



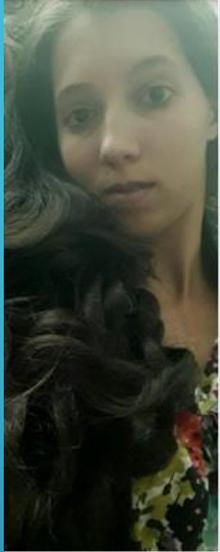
- Birth Place : Meyrin, Switzerland
- Interests : Physics is a hobby and a passion for me. In my free time, I usually learn about physics on-line, read books to get a deeper understanding of our universe. I also do sports such as swimming, basket-ball and volleyball.
- Current School : University of Waterloo, B.Sc. Mathematical Physics
- What is your hope to take away from this incredible opportunity?
  - As I will be studying physics in university and I want to pursue further my education in Particle Physics, this will be the greatest experience to have. The idea to look for something new and be able to contribute to a possible discovery among expert in particle physics is dream that comes true.

What are you most proud of in regards to this project ?

- I am very proud to have brought this competition to my school, raised the interest and recruited a team of talented individuals.
- I am also very proud that we have been recognized by the particle physics community in Canada for bringing a winning proposal.



# DOMINIQUE MORRISON

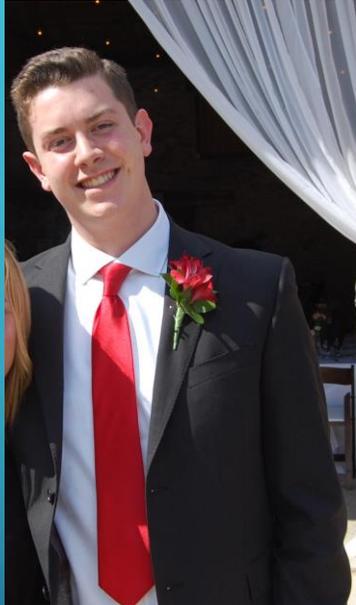


- Birth Place : Waterloo, ON, CA.
- Interests : I was a competitive dancer all through high school as well as a dance teacher which took up about 20 hours a week of my time. The dance style that I am most passionate about is tap dance. I also love reading and spending time outdoors.
- Current School : I have been accepted into the University of Waterloo's Civil Engineering Co-op program and will be attending there starting in September 2018. During my gap year I will be working as a student designer at the civil engineering firm MTE Consultants. Inc. I will also be backpacking around Europe with my sister for three months which I am super excited for!



- What do you hope to take away from this incredible opportunity?
  - During our stay at CERN, I hope to learn a lot about how projects of this magnitude are run and the procedures used during real scientific experiments. I am really looking forward to collaborating with the team at CERN and seeing our experiment come to life! I'm proud to say that I was able to contribute to many aspects of our project. As one of the main writers of the written proposal and the video script I got to help shape the direction of the project and the proposal, which was incredible!
  - I'd like to thank CERN, as well as all the BL4S sponsors for creating such an amazing opportunity for young people to get involved in science!

# MATHIEU GILMOUR



- Birth Place : Kitchener, Ontario, Canada
- Interest : My interest is coding, my hobbies are listening to music and playing games and my passion is programming.
- Current School : Guelph University in the Computer science program with Coop
- What you hope to take away from this incredible opportunity ?
  - From this adventure I hope to broaden my knowledge in the field of physics and a have deeper understanding of particle acceleration
- What are you most proud of in regards to this project?
  - For this project, I feel mostly honored and proud to have had the chance to work with this great group of people



# CAITLYN MOURCOS



- Birth Place : St. John's, Newfoundland
- Interest : running, swimming, volunteering, art (music, painting, drawing)
- Passion: helping others and learning more about the world and ourselves
- Current School : . University of Ottawa, Biomedical Science
- What you hope to take away from this incredible opportunity ?
  - I am hoping to return with a better appreciation and understanding for the research process and the world of physics as it unfolds before our eyes.
- What are you most proud of in regards to this project ?
  - To date, I am most proud of my contribution in the conception of the submitted video. Writing the script and story board was so much fun!



# ANDREW MOURCOS

- Birth Place : St John's, Newfoundland, Canada
- Interest : I love Physics and Math especially, and I often try to advance my knowledge in these subjects. In my spare time, I work on electronics projects: I program, build robots etc. A project that I'm currently working on is a smartwatch that'll have cooling modules built-into it and also a small CNC machine (this project's more long-term). I'm also in the middle of making my own website ( [andrewmourcos.github.io](https://andrewmourcos.github.io) ) to share some cool things that I'm doing and so that people can find me on the internet! Other than that, I like to play squash and table tennis.
- Current School : Père-René-de-Galinée secondary school, 12th grade
- What you hope to take away from this incredible opportunity ?
  - We hear about CERN all the time! It's probably in every single textbook that I own. However, there are very few people that are able to say that they've been to CERN, let alone work on an experiment! For me, this is an opportunity of a lifetime! I hope I'll be able to learn what it's like to work in this field and I think it will greatly affect my future decisions, as I'm still unsure what I want to do when I go to university next year. In addition, the people that I'll meet on this journey may help me in my future endeavours and who knows maybe I'll come back and work at CERN!
- What are you most proud of in regards to this project ?
  - Most of my involvements were in directing and editing the video part of the project. I'm most proud of my contribution towards picking the dynamic and creative video style (using team members as particles, the hallways as the accelerator etc.). Also, I'm proud that we ended up picking the team name that I suggested ;)



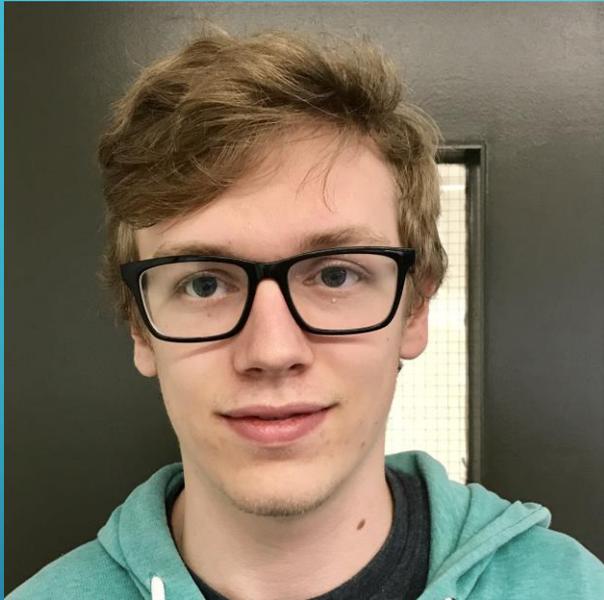
# MARIAM IBRAHIM



- Birth Place : Cambridge, Ontario, CANADA
- Interest : I love to travel and going to the beach. I enjoy spending time with my friends. I love doing Jigsaw puzzles.
- Current School : University of Guelph, Biomedical Sciences
- What you hope to take away from this incredible opportunity ?
  - During our stay at CERN, I hope that our experiment will be a success. Also, I hope to further my knowledge of particle physics.
- What are you most proud of in regards to this project ?
  - I am very proud to have contributed to the research of our project, to have played a role in our video and finally to have created our hoodies for our team.



# COLIN BILLIAU



- Birth Place : Saskatoon, Saskatchewan, Canada
- Interest : Video games
- Current School : Sheridan College, Media Fundamentals
- What you hope to take away from this incredible opportunity ?
  - What I want to take away from this experience is to understand how CERN works as a whole



# DENISA LOGOJAN

- Birth Place :
- Interest : In my spare time, I generally like to read fiction and continue writing my own novel and short stories. I also enjoy riding horses, running and eating ice cream. I am passionate about philosophy and the sciences, with a stronger interest toward the medical aspects of those two disciplines.
- Current School : Western University, Medical Sciences (BMSc.)
- What you hope to take away from this incredible opportunity ?
  - I would like to deepen my knowledge about particle physics when it comes to data analysis and real, hands-on experiments. However, due to this mutual interest in physics, I would also love to meet and interact with different students and physicists.
  - What are you most proud of in regards to this project ?
    - I am proud of my written contribution to the submitted proposal, however I'm even prouder of how much teamwork and dedication each member of our team exhibited during the entire process.



# JACOB LEHMANN

- Birth Place : Cambridge, Ontario
- Interest : Bagpipe player, tennis teacher
- Current School : University of Guelph
- What you hope to take away from this incredible opportunity ?
  - *Maybe one day getting a job at a place that feels like home even though it is far from home*
- What are you most proud of in regards to this project ?
  - *Let me improvise....*



# EMILY LOKE



- Birth Place : Guelph, Ontario, Canada
- Interest : : I like learning new things, exploring what the world has to offer, watching movies, running, and writing.
- Current School : University of Guelph
- What you hope to take away from this incredible opportunity ?
  - What I would like to take away: an amazing life experience that allowed me to learn about the Suisse culture, CERN, quantum physics, and leave me with great memories that will last a lifetime
- What are you most proud of in regards to this project ?
  - I'm proud that I was able to be involved with the development of this project via the video, team meetings and discussions, and the proposal.



# LUCAS FERRON



- Birth Place : Toronto, Ontario, Canada
- Interest : My main interests are coding, psychology and physics. My hobbies include video games and drawing. My passions are coding and design.
- Current School : University of Guelph, Software Design
- What you hope to take away from this incredible opportunity ?
  - I hope to learn more about the process of scientific research and the steps that need to be taken to efficiently and successful pull it off.
- What are you most proud of in regards to this project ?
  - I'm proud of my cooperation and coordination with my team



# MARINA ROBIN



- Birth Place : Toronto
- Interest :
  - My hobbies are listening to music, travel and photography
  - My passion is science
- Current school: University of Waterloo
- What you hope to take away from this incredible opportunity ?
  - Discover a new country
  - Meet new people
  - Expand my knowledge of physics
- What are you most proud of in regards to this project ?
  - Documenting our progress and keeping the public updated through our social media account



# ESPRDG.CSCMONAVENIR.CA



## École secondaire catholique Père-René-de-Galinée

Apprendre aujourd'hui, pour demain

ACCUEIL

Calendrier et dates importantes

SPORTS ET ACTIVITÉS

Les examens électroniques du PEI de TIB

Notre école →

Communications →

Services à l'élève →

Orientation →

Nos programmes →



Les inscriptions à la confirmation sera le dimanche 15 octobre 2017 après la messe de 10h30 à Saints-Martyrs-Canadiens, 71 rue Ainslie Cambridge

[ Lire la suite ]



### LES SPORTS ET ACTIVITÉS À PRDG...

informations pour les essais

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LES CHEVALIERS