

## Education

- **École Secondaire Catholique Père René de Galinée (PRDG)**, Class of 2018, fully french education.

## Experience

- **Squash Camp Counsellor** at *Northfield Racquet Club* Summer 2016  
Coaching the fundamentals of Squash to kids ranging from 7-14 years old, responsible for specific group training, drill making/training, tournament play organization and Squash matchup organization.

## Awards

- **Integrity Award** awarded to a student who showed exemplary integrity in reference to the International Baccalaureate's (IB) 'Student Role Model' attributes. Won 2 times consecutively.
- **Over 80% Award** awarded to students who maintain above an 80% average throughout the year, **won consecutively for 5 years** (Gr. 7 - current grade).
- **Bronze star, Bronze medallion and Bronze Cross** from **Lifesaving Society**, bronze lifesaving course. **Certified to be an assistant lifeguard** and/or an **assistant swimming instructor**.
- **Best Personal Project** for the International Baccalaureate Middle Years Program (IB MYP). Awarded to the student with the best overall project with consideration of the project research, product, presentation fair and votes. My project was on **Autonomous Vehicle Integration** as I programmed my own autonomous vehicle as my product.
- **International Baccalaureate MYP class certificate** awarded to students who participated in the 4 year internationally-recognized program.
- **International Baccalaureate MYP excellence certificate** awarded to the **only 23 students who passed** the online examinations in every subject. I additionally had one of the **highest scores** in my grade.

## Technical Skills

- **Programming languages:** C/C++, Python, HTML+CSS+JS
- **First Aid and lifesaving certification.**
- **Natively speak English, fluent in French (fully french education JK-Gr.12)** and currently learning Arabic.
- **Soldering skills for circuitry.**
- **Proficient in Microsoft Excel** as well as Word, Powerpoint, OneNote etc.
- Knowledgeable in **Windows and MacOS**.

## Notable Projects

- **Piezoelectricity and its potential in energy-harvesting** created my own Piezoelectric car harvesting concept in the written portion of the project. Created my own working miniature Piezoelectric energy-harvesting system as a product.
- **Autonomous Vehicle implementation**, exploring the potential of autonomous cars whilst keeping in mind the moral dilemma associated. Created a working robotic car that implements my own autonomous driving algorithms and parking.
- **Peltier's Watch** built a wrist-mounted wearable device that acts as its own cooling method using a thermoelectric module and a micro-controller to regulate it.

## Extracurriculars

- **Squash team cofounder/leader/athlete** I founded my school's first ever squash team, we held practices outside of school and even competed in the Jim Mason Cup.
- **Robotics team founder/leader** I led my school's advanced robotics team in building a camera-limited autonomous car to compete as the only high school against other university-level teams for the **IARRC. Won 2nd place.**
- **Quantum physics team** I fully directed the video presentation and edited the proposal for our submission for '**CERN's Beamline for Schools**'. We won as the first ever American (north or south) team. We will be conducting our own particle research at CERN in fall 2017.
- **Student Council Treasurer** 2017-2018

## Hobbies

- Robotics
- Squash
- Table Tennis
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**Andrew Mourcos**

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