

# RAYMOND LIN

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## EDUCATION

- 
- **Duke University**, Durham, NC Expected May 2023
    - Bachelor of Science in Electrical and Computer Engineering
    - Robotics Club Member working on Simultaneous Localization and Mapping
  - **University of Toronto Schools**, Toronto, Canada (98% average) June 2019

## EXTRA-CURRICULARS

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- **Brain Stimulation Engineering Lab, *Research Assistant*** 2019-present
    - Conduct research with Prof. Angel Peterchev on transcranial magnetic stimulation (TMS).
    - Develop new TMS neural navigation systems using computer vision.
  - **International Young Physicists' Tournament (IYPT) Team Canada** Summer 2019
    - Earned a bronze medal (Canada's best yet performance) at IYPT (a competition where students conduct experiments in physics and then debate the findings similar to a thesis defense.)
    - Explored concepts such as non-linear optical properties of soy sauce and the dispersive effects that result in the production of laser gun sound. Created physical simulations in Python/Java.
    - Worked with Arduino and circuits to construct controlled experimental devices/setups.
  - **Head of Student Resources @ STEM Fellowship** 2019-present
    - Serve on the Canadian Young Physicists Tournament (CaYPT) Committee to lead mentorship for experience teams, create new teams and updating and maintaining the references website
    - Guide teams through the scientific process by providing personal experiences and insight on how to tackle challenging experimental physics problems and creating effective experimental setups.
  - **Physics Club, *President and Founder*** 2017-2019
    - Created an environment where students can discuss and learn physics with like-minded people and explore it through weekly experiments and demonstrations not found in the classroom.
    - Identified and invited guest speakers such as a LIGO researcher who worked on the discovery of gravitational waves or a top Canadian astronaut candidate who studied Arctic climate change.

## PROJECTS

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- **PenniesForGood, *HackDuke 2019***
    - Created a Google Chrome extension asks users to round up their online purchases to the nearest dollar and donate the difference to a charity relating to the product they purchased.
    - Designed the logo and created the charity selection page and the thank you page.

### Lane Detection

- Used computer vision with OpenCV and Python to create a program that could highlight lanes when driving.
- Tested extensively with various videos under various conditions and worked quite accurately.

## AWARDS & ACHIEVEMENTS

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Ontario Volunteer Services Award	2019
1 <sup>st</sup> Place, OAPT Physics Contest	2018
National Biology Scholar, National Biology Competition	2018-2019
Canadian Chemistry Olympiad Training Camp Participant, Canadian Chemistry Contest	2018
Honor Roll, Canadian Senior Mathematics Competition	2018

## SKILLS & INTERESTS

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Languages: English, French, Mandarin, Latin

Software: Python, Java, Arduino, LaTeX, Linux, MATLAB

Lab Skills: Oscilloscopes/Function Generators, Circuits, Soldering, Lasers, Optical Setups etc.

Interests: Basketball (Toronto Raptors), Board Games, Chess, Fantasy Basketball, Messing with Pokemon Go, Cooking, SORTEDFood, Reddit, League of Legends