Parth Agarwal

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SUMMARY OF QUALIFICATIONS

- Proficient in Java, Python (numpy, math), Arduino, Office 365, AutoCAD, SolidWorks, PCB/Circuit design, and Latex.
- Good with Raspberry Pi, Kotlin, XML, Android Studio
- Familiar with HTML, CSS, C++, LabVIEW, and currently learning MATLAB
- Strong **leadership, communication, and teamwork skills** used to manage team projects for high school Robotics Club, Notify, Arduino project and Camp Riverwood roles.
- **Wet lab experience**: Titrations, Synthesis reactions, Acid-base separation, Condensation reactions, Calorimetry.
- Excellent **Time-management skills** shown by high performance in stressful situations while working on Notify and through performances in the 2019 Ontario Skills Competition.
- Through understanding of fundamental applications of nanotechnology such as **surfactant chemistry**, **crystalline structure**, **crystal defects**, SolidWorks and Arduino demonstrated by mark of 94% in NE 100.

EXPERIENCE

Robotics Club
Sep 2018 - May 2020

Executive Member | Pickering, ON

- Participated in and led Robotics meetings with approximately 20 members authoritatively and efficiently building **leadership** and **communication** skills.
- Developed **critical thinking skills** by creating, teaching and testing various aspects of autonomous and semi-autonomous robots for the 2020 Ontario Skills Competition using **Raspberry Pi** and **Arduino**.
- Implemented **engineering strategies** with a partner to solve problems in the robotics and automation industry at the the 2019 Ontario Skills Competition **placing 6th overall** for the Robotics and Control Systems event.

Camp Counsellor
Jun 2019 - Aug 2019

Camp Riverwood | Pickering, ON

- **Collaborated with others** effectively to maintain a safe work environment for dozens of children ranging from age 6 to 12.
- Served as exceptional role model to **several age groups** and personalities throughout camp programs and associated activities.
- Assisted in maintaining accurate program records, including incident reports, logbook documentation, and daily attendance.

PROJECTS

Arduino

- Designed and constructed a working fan with separate speed levels with an LED indicator with a partner using coding language **C++**, a breadboard, and an **Arduino Uno**.
- Completed several other small-scale projects with Arduino Uno for Computer Engineering course resulting in a mark of 100%.

Notify
May 2020 - Present

Android Development | Remote

- Currently developing an Android application with several other students which allows users to schedule appointments for a variety of businesses using **Kotlin**, **XML** and **Java**.
- Establishing a successful work environment by providing coding experience, productive ideas, and **creative insights** to the team to further improve the app.

EDUCATION

Candidate for BASc Nanotechnology Engineering Co-op
Sept 2020 - Present

University of Waterloo | Waterloo, ON

- President's Scholarship

Soccer Fanatic | Astronomy Enthusiast | Animal Lover | Cinema Buff