**Experiences**

* **Fully built a Desktop PC featuring with the following specifications:**
* Ryzen 5 3600
* RTX 2060
* 16 GB DDR4 RAM
* ASUS Motherboard
* Windows 10
* 1TB HDD
* 512 GB SSD
* **Robotic Assistive Arm – Queen’s University**
* In my first-year course, APSC-101, three others and I formed a group to create a working robotic assistive arm. Its function is to lift various objects for those who have disabilities. The project included various implications such as complex problem solving, high degree of mathematical modeling, precise CAD designing, and Arduino coding and wiring. Combining everything together, a final, functioning protype will be created.
* **Personal Project – Swift iOS Birthday App**
* Created a simple birthday app for a friend for their birthday. The user can change the theme and colors of the app as well as view photographic memories by cracking various puzzles and entering a secret code.
* **Software and System Integration Specialist – Queen’s University AutoDrive Team**
* Currently working with a team on a project to successfully convert a Chevrolet Bolt into a fully autonomous vehicle. As a member of the Software Integration sector of the AutoDrive team, we are responsible for designing and maintaining the system code and architecture of the vehicle. The integration group is also in charge of Camera & LIDAR calibrations as well as ROS2 (Robot Operating System 2) Integration.
* **STEM Coordinating Assistant – Barrie Public Library**
* Volunteered in multiple STEM learning sessions for children, assisting and teaching them the basics of robotics and code using VEX IQ bots and their respective program language: VEXcode IQ Blocks.
* Other involvements with the Barrie Public Library include being the cover model for their front page (See attached PDF).
* **Food Drive & Clothing Volunteer – Barrie Out of Cold**
* Volunteered at the Barrie Out of Cold homeless shelter throughout the 2020 holiday break and donated various non-perishable food items and second-hand clothing to those in need.
* **Video Producer – Lakehead University**
* Assisted in the recording and video editing of various Lakehead University instructional videos due to the cause of the COVID-19 pandemic in 2020.
* **Fundraising Manager – GoFundMe**
* As my homeland, Kerala, India, faced catastrophic floods causing several mudslides and disasters, I solely raised over 2 thousand dollars in humanitarian aid.