DHRUMIT PATEL

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EDUCATION

B.Eng, Honors Mechatronics Engineering
OntarioTech University *Sep 2020 – 20204*

SKILLS

Mechanical: SolidoWorks, Siemens Nx, MATLAB, Simulink & Simscape, SAS (Statistical Analysis), Maple,
Electrical: LabView, Multisim, Oscilloscope and Function Generator, Circuit Design & Analysis, Basic Wiring
Programming: C++, C, Python, Java, Programming Sensors, Raspberry Pi & Arduino, Web development
Hardware: CNC Machine, 3d Printing, Soldering, Basic tools
Other: MS Office, DFA, DFM, GD&T, Leadership & Team Management Skills, Interpersonal Communication

WORK EXPERIENCE

Receptionist Administrator | Complete Physio & Sport Rehab *June 2018 – August 2019*

- Took delivery of packages and documents, applying appropriate internal policies relating to the chain of possession.
- Answered incoming calls, directing clients to individuals addressing specific needs.
- Scheduled office meetings and client appointments for staff teams.
- Used software like Excel and Calendly to keep track of appointments and follow proper routine.

Camp Counselor | TDSB & CAMPTAMARCK *May 2018- Sep 2018*

- Worked with children of varying ages, interests, skills, and developmental levels.
- Led groups of children safely through a variety of camp activities.
- Collaborated with other camp counselors to design fun and enriching learning activities for campers.
- To improve camper documentation, keep accurate records of participants' activity attendance, disciplinary actions, and medication usage.

PROJECT EXPERIENCE

Autonomous Rickshaw and Aircraft Landing Gear

- Led a team of 5 people to design, build, and 3D model a landing gear prototype and an autonomous rickshaw. Created a functional physical prototype and a virtual prototype to map out functional and operational parameters.
- Managed the team and led communications and design meetings to produce deliverables.
- Successful in complying with given specification of using only 30 x 30 box to build the whole mechanism

Home Surveillance Robot

- Designed and developed a humanoid shaped robot using Arduino Uno to follow objects/humans.
- Outfitted with an ultrasonic sensor to track distance as well as a dashcam to record interactions. Useful in-home security/ surveillance purposes.

Door Lock System

- Created a modern closet door lock using Arduino, LCD display, servo motors, button pads, potentiometer, and a relay
- Can be used on a closet door to lock to provide better security as well as an easy password change system that can be done from your phone (using a Bluetooth module from Arduino board to Phone)