Anoushka Pathak

Candidate for Honours Mechatronics Engineering

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EXPERIENCE

AQRD, Environment Canada — Programmer and Computer Support

JAN - APR 2019

- Developed a web application for users to create entries in a database using AJAX, SQL, PHP.
- Added functionality to a file uploading tool to modify and upload large data files using python scripts.
- Updated and debugged web tools by implementing dynamic menus and inputs using Jquery, improving UI design by using bootstrap and other CSS libraries
- Implemented and troubleshooted file copying/transferring (batch scripts) in preparation for a department-wide update.
- Troubleshooting issues with computers, networks, printers.

PROJECTS

Programming — Personal website and games

SEPT 2018

- Created and published a personal website using HTML and CSS to learn web application development: https://nikpath.github.io/
- Created user-input based games: Battleship, Madlibs, and a RGB to HEX convertor

${\bf Mechatronics\ Robots\ - Jenga\ builder\ and\ pneumatic\ arm}$

SEPT - DEC 2018

- Worked with a team to design and build a robot that creates a Jenga tower:using Lego, Tetrix kits and various materials.
- Programmed in RobotC, learnt how to work with sensors and timers
- Designed and built a robotic arm that placed small items on hooks with accuracy and precision using Tetrix kits and pneumatics.

FIRST robotics team (2702 Rebels) — Competition

JAN - APR 2018

- Built and assembled components of the mainframe/structure of the robot in a machine shop.
- Worked in a team to develop ideas on how the robot would lift itself and a large weight approx. 7ft upward.

LANGUAGES

- C++
- Python
- SQL
- PHP
- Javascript
- HTML+CSS

TOOLS

- XCode
- PgAdmin
- GitHub
- MS Office
- AutoCAD
- Solidworks

EDUCATION

Mechatronics Engineering

- Data Structures and Algorithms (C++)
- Digital Computation (C++, RobotC)
- Engineering
 Graphics and Design
 (AutoCAD,
 SolidWorks,
 orthographic
 projection, GD&T)