

Anoushka Pathak

Candidate for Honours Mechatronics Engineering

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<https://nikpath.github.io/>

SKILLS SUMMARY

- Programming languages: C++, Python, SQL, PHP, Javascript, HTML+CSS
- Graphics and Design: AutoCAD, Solidworks
- Tools: PgAdmin, XCode, GitHub, MS Office

EXPERIENCE

Programmer and Computer Support - Environment Canada AQRD..... Jan - Apr 2019

- Developed a web application for users to create entries for multiple tables in a database using AJAX, SQL, PHP.
- Updated a file uploading tool so that it could modify and upload large data files using python scripts.
- Updated and debugged various other 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.
- Helped with external drive encryption for safe storage of files and data.
- Troubleshooting issues with computers, networks, printers.

PROJECTS

Personal projects..... 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 such as Battleship, Madlibs, and a RGB to HEX convertor using python

Mechatronics robots..... Sept - Dec 2018

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

FIRST robotics team (2702 Rebels)..... 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.

EDUCATION

Mechatronics Engineering..... Sept 2018 - 2023

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