

Julia Bouchard

Aerospace Engineering student

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Montreal

EXPERIENCE

Pratt & Whitney Internship

Engineering, Patent & Innovation Team.

Tasks:

- Work with Sr. Technical experts to consolidate their innovation ideas and document their inventions
- Find innovation opportunities and identify vulnerabilities in P&WC's patent portfolio
- Gather competitive intelligence on the existing and future products based on open domain info

St-Hubert restaurant, Piedmont, Quebec.

Have been working since I was 16 years old while attending school full-time.

Positions:

Waitress, Bar, Line cook, Cashier, Receptionist.

Tasks:

- Lead and coordinate a kitchen with over 10 staff members.
- Effective multitasking while waiting for up to 15 tables at once.

OTHER

- Bilingual proficiency, spoken and written (French and English).
- Limited working proficiency (Spanish).
- Nationality: Canadian. Residence: Montreal.
- Willingness to work abroad.

SKILLS

- Resilient under pressure, in a fast-paced environment, attention to detail
- Leadership and team building.
- Professionalism.
- Time management.
- Good communicator (oral and written).
- Ability to influence.
- Interacting with customers.

EDUCATION

University

- **Bachelor of Aerospace Engineering.**
- Specializing in propulsion and aerodynamics.
- Concordia University, Montréal.
- One year left before graduating.

Achievements

- **Above 4.0 GPA.**
- **3x on the Dean's List**
- **Excellence Award given by the school**
- Invited to join the Golden Key International Honour Society (top 15% of students).
- Invited to join the Garnet Key Society, the official Honours Society of Concordia University (for students with a GPA above 3.6).

Projects

- Designed and built a Nose Landing Gear Demonstrator rig (Bombardier CL300), including the rig, hydraulic and electrical systems
 - Hydraulic team: pressure and flow rate calculations, hydraulic drawings, valve selection, assembly, testing, user guide manual, etc.
- Designed an aircraft:
 - Wing design: configuration, wingtip, airfoil, etc.
- Designed a new aileron system for the Challenger 300:
 - Hinge moment calculation, fault tree analysis
- Built a car thermoelectrical generator:

College

- **Nature of science – Health science, college diplomas.**
- Édouard-Montpetit collège, Longueuil.
- 2018-2020.

High school

- **International Baccalaureate – International Program of Education.** My average: 84.9%. Group average: 72.7%.
- French, English, and Spanish.
- 2-week volunteering trip in Ecuador.
- 3-week trip to California to improve my English.
- Volunteering (80+ hours).
- 2013-2017

SOFTWARE SKILLS

- | | | |
|--------------|-------------------|--------------|
| ➤ MATLAB | ➤ CATIA | ➤ XFoil |
| ➤ C++ | ➤ Linux | ➤ ParaView |
| ➤ Arduino | ➤ Simulink | ➤ Gmesh |
| ➤ OpenVSP | ➤ Ansys Fluent | ➤ JupyterLab |
| ➤ AutoCAD | ➤ Microsoft Suite | ➤ Python |
| ➤ Revit | ➤ PatSnap | |
| ➤ SolidWorks | ➤ Derwent | |
| ➤ Octave | ➤ Anaqua | |
| ➤ DWSIM | ➤ Amesim | |