

Flynn Dowey - Mechanical Engineering

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Summary of Qualifications

- 2 years experience in SolidWorks and AutoCAD; advanced skills with Engineering graphics & drafting.
- Arc and oxy-fuel welding & cutting experience.
- Front stack developer knowledge via HTML, CSS and JavaScript.
- Certified in industrial design, architectural design and design communication.
- Awarded for relentless leadership; received prefect, and academic captain in high school for course-work.
- Strong work ethic shown through leadership awards while maintaining a 97% average in high school.

Relevant Experience

Quality Assurance technician, St Mary's CBM Votorantim

[Sep – Dec 2019]

- Thorough understanding of the mechanical processes that aggregate plants that can produce product one way and how to correct it.
- Optimized CBM plants to make higher margin products with the maximum throughput.
- Optimizing loader/excavator balance with trucks by timing cycles and analyzing complete cycle for fleet optimization.
- Conducted mathematical and scientific tests on aggregate products to ensure their validity for CBM's clients and Ontario's regulations.
- Recorded data from the test results on Excel and aggQC/Citrix XenApp to inform of any discrepancies or defects which follows a standard typed report.

Mechanic, Vancouver Auto Center

[January – May 2019]

- Resolved conflicts successfully to ensure staff and customer relationships remained exceptional.
- Wrote statements and full reports to justify increased costs politely to customers.
- Accomplished a complete engine removal and re-installation with supervision of a senior mechanic.
- Welded exhaust systems effectively using arc and oxyfuel welding to fix deviations in exhaust systems.
- Initiated new projects and service ideas; completed service on commercial vehicles to ensure safety inspection was passed by the province of BC. Commended frequently on work ethic and actively recruited to return based on skill.

Relevant projects

Industrial design certificate, Emily Carr University.

[Jan-April 2019]

- Researched design principles in groups to apply the material and concepts to the workplace.

Architectural design certificate, Emily Carr University.

[Jan-April 2019]

- Incorporated design principles into drafting and creating functional structures and objects.

Fuel Cell Project.

[May – July 2019]

- Design a boat in a team using AutoCAD and solid works to enhance speed and stability of the hull, so that it can be powered by a hydrogen fuel cell.

- Constructed a hull by optimizing speed and controllability calculating the ideal gas law, fundamentals of physics and thermodynamics to improve fuel cell power and efficiency.

Toy Design Project

[October – December 2018]

- Designed, presented and created a toy in a team of 5 using AutoCAD and solid works effectively to produce 3D printed prototypes.
- Presented final design to a panel of engineers from Spin Master and Waterloo professors.

Python 2 and 3 – learning concepts of python and its applications (linear programming) during personal time.

Education

University of Waterloo

[September 2018 – September 2023]

- Received entrance scholarship for an average of 97%
- Practiced drafting industrial machinery for assignments and projects, also learned how to measure and dimension using tolerances.

Additional Experience

Construction, private company.

June 2017/September 2017

Customer service specialist, Fresh Street Market.

June 2018/August 2018