

JOHN LIAN

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OBJECTIVE

I am looking for a full-time systems engineering, project management, or product design position in robotics or another high-tech industry. I am very open to relocation, especially to the Bay Area.

EDUCATION

MCGILL UNIVERSITY 2010 - 2015

Bachelor of Honours Mechanical Engineering Montreal, QC

- J. W. McConnell Scholarship, Richard Lawrence Weldon Scholarship, & Faculty of Engineering Scholarship
- CGPA: 3.59/4.00

LEADERSHIP

CO-FOUNDER AND PROGRAM COORDINATOR 2013 - 2015

FRC Team 4955, Robotique FIRST Québec & Youth Fusion Montreal, QC

- Co-founded an FRC team while being a full-time university student
- Supervised 30 students across Mechanical, Software, Electrical, and Business divisions
- Lead development, from concept to deployment, of two 120-lb remote controlled robots - each within six weeks
- Implemented long-term strategy and sustainability measures, winning FRC Rookie Grant (\$7,000 over three years)

WORK EXPERIENCE

UNDERGRADUATE RESEARCHER SUMMER 2014

Prof. Andrew Higgins Montreal, QC

- Lead a team to design and build an air-bearing experimental apparatus to study nonlinear wave mechanics
- Developed a MATLAB particle-tracking program to capture and analyze footages
- Created a user-friendly MATLAB program for simulation comparison

SYSTEMS INTEGRATION INTERN FALL 2013

Bombardier Aerospace Montreal, QC

- Conducted first-hand review of supplier delivery of over 100 component qualification/validation packages
- Developed a standard, time-saving review procedure resulting in accelerated qualification phase
- Created and implemented 5 Excel VBA-based scripts for the team to reduce work repetition

MAINTENANCE ENGINEER INTERN FALL 2012

Suncor Energy Fort McMurray, AB

- Analyzed and categorized over 500 failure cases into SAP database
- Investigated 10 high-profile failures and authored their failure reports
- Developed a workshop safety initiative by experimentally determining critical values

SKILLS

- **Engineering Software:** SolidWorks, AutoCAD, Autodesk Inventor, ANSYS, LabVIEW
- **Programming:** MATLAB, Python, Java, C, FORTRAN, Excel VBA, LaTeX, CSS, HTML
- **Other Software:** SAP, Mathematica, Maple, Microsoft Office, Adobe Creative Suite
- **Languages:** Fluent English and Mandarin Chinese